Curriculum Vitae 2024

GEORGE R. MANGUN

PERSONAL DATA

Citizenship:	US
Married:	Tamara Swaab; two children, Alexander (22) and Nicholas (20)
Address:	Center for Mind and Brain, UC Davis, 267 Cousteau Pl., Davis CA 95618

EDUCATION AND TRAINING

1987-88	University of California, San Diego, Postdoctoral Fellow, Neurosciences.
1987	University of California, San Diego, Ph.D., Neurosciences.
1981-82	University of California, Los Angeles, ARCS Neuroscience Fellow, Brain Research Institute.
1981	Northern Arizona University, B.S., Chemistry (extended major in life sciences).

EXPERIENCE

2019-	**Director**, Center for Mind and Brain, University of California, Davis.
2014-	**Distinguished Professor** of Psychology, University of California, Davis, and **Distinguished Professor** of Neurology (neuroscience), UC Davis, School of Medicine.
2010-22	**Director**, Kavli Summer Institute in Cognitive Neuroscience (w/ NIMH and NIDA)
2016-17	**Chair** (interim), Department of Psychology, University of California, Davis.
2008-15	**Dean** of Social Sciences, University of California, Davis.
2002-14	**Professor** of Psychology, University of California, Davis, and **Professor** of Neurology, University of California, Davis, School of Medicine.
2002-09	**Director** (founding), Center for Mind and Brain, University of California, Davis.
1999-02	**Director** (founding), Center for Cognitive Neuroscience, Duke University, **Professor** of Psychological and Brain Sciences, Duke University, **Professor** of Neurobiology, Duke University School of Medicine (appointed in 2000).
1996-99	**Head**, Perception & Cognition Area, Dept. of Psychology, University of California, Davis.
1992-99	**Assistant** through **Full Professor** of Psychology, Department of Psychology and Center for Neuroscience, University of California, Davis.
1991-92	**Director**, Graduate Program in Cognitive Neuroscience, Dartmouth College.
1990-92	**Assistant Professor** of Psychiatry (Program in Cognitive Neuroscience), Dartmouth College and Medical School.
1988-90	**Assistant Research Neuroscientist,** Department of Neurosciences, UC San Diego.

HONORS AND AWARDS

2024	Fulbright U.S. Distinguished Chair Award, Center for Human Brain Health, University of Birmingham, UK (tenure upcoming)
2018	Elected Member, Electorate Nominating Committee (ENC), Section on Neuroscience, American Association for the Advancement of Science (AAAS) (2018- 21)
2016	Radboud Excellence Professorship, Radboud University, Nijmegen, The Netherlands
2015	Kavli Futures Symposium Director, “Emerging Technologies for Neuroscience”.
2011	Elected Fellow, American Association for the Advancement of Science (AAAS).
2010	Distinguished Scholar Alumnus Award, ARCS Foundation, USA.
2009	Distinguished Visiting Fellow, Sage Center for the Study of the Mind (UCSB).
2007	Elected Fellow, Association for Psychological Science (APS).
2006	James McKeen Cattell Fund Fellow, Association for Psychological Science (APS).
2006	Elected Member of the International Neuropsychological Symposium.
2001	Senior Scientist Award, NIMH (2001-06).
1999	Distinguished Scientist Lecturer Award, American Psychological Association (APA).
1994	F.C. Donders Lectureship, Max Planck Institute, Nijmegen, The Netherlands.
1993	Distinguished Early Career Contributions Award, Society for Psychophysiological Research.
1991	Scientist Development Award, NIMH (1991-96).
1985	National Research Service Award, NIMH (Individual).
1984	Grass Foundation Fellow, Cold Spring Harbor Laboratory, New York.
1982	Regents Fellow, Graduate Program in Neurosciences, University of California, San Diego

1981 ARCS Foundation Graduate Fellow, Brain Research Institute, UCLA.
1980 Phi Kappa Phi National Honor Society, Northern Arizona University.

PROFESSIONAL ACTIVITY

Editorships, Editorial Boards, Consulting Referee:

Field-Chief-Editor (Founding Editor), *Frontiers in Cognition*, 2022-present.
Co-Editor-in-Chief, *The Cognitive Neurosciences* (MIT Press) 2013-present.
Editor, *Cognitive Brain Research* (Elsevier), 2002–2006.
Associate Editor, *Journal of Cognitive Neuroscience* (MIT Press), 1996-2019.
Senior Editor, *Brain Research* (Elsevier), 2006-2010.
Editorial Boards, Currently: *Journal of Cognitive Neuroscience* (MIT Press); *Cognitive Neuroscience* (Taylor & Francis), *Biological Psychology* (Elsevier) Past: *Brain Research, Cognitive, Affective, & Behavioral Neuroscience, Neuropsychologia, BrainMap, PNAS* (Consulting Editor)
Consulting Referee (sample): *Science, Nature, Nature Neuroscience, PNAS, Psychological Science, Psychophysiology, Neuropsychologia, Experimental Brain Research, Journal of Experimental Psychology: HPP, Human Brain Mapping, Biological Psychology, Psychonomics Bulletin and Review, Journal of Neurophysiology, Neuroscience Letters, Brain Research, Neuron, Neuroimage, Vision Research, Cerebral Cortex, Frontiers in Human Neuroscience, Cognition, Scientific Reports*

Federal Government and Other Advisory Panels:

National Science Foundation, Cognitive Neuroscience Panel (2022)
Max Planck Society (FRG), Chair, Scientific Advisory Board (Fachbeirat), MPI for Psycholinguistics, Nijmegen (2016- present).
International Scientific Advisory Board (Chair), Basque Center on Cognition, Brain and Language, Spain (2009-present)
U.S. National Committee for the International Union of Psychological Science, Board on International Scientific Organizations, The National Academies, Cognitive Neuroscience Society Liaison (2015- present).
European Research Council, External Reviewer, Consolidator Grants Panel SH4: The Human Mind and its Complexity (2021-22).
European Research Council, Panel Chair and Member, Consolidator Grants Panel SH4: The Human Mind and its Complexity (2018-19).
European Research Council, Panel Chair and Member, Consolidator Grants Panel SH4: The Human Mind and its Complexity (2016-17).
National Academies Panel on Human Factors Science at the Army Research Laboratory, Member (2015-18).
NIH Study Section (grant review panel), Member, Sensory Processes and Cognition (2012-18).
European Research Council, Deputy Panel Chair and Member, Consolidator Grants Panel SH4: The Human Mind and its Complexity (2014-2015).
National Research Council (NRC), Member, Integrating Humans, Machines and Networks: A Global Review of Data-to-Decision Technologies (2012-2014).
European Research Council, Member, Starting Grants Panel/Council - SH4-18: The Human Mind and its complexity (2012-2013).
NIH Study Section, Ad hoc member, SPC (2012).
NIH Special Emphasis Panel, Neurotechnology Study Section, ZRG1 NT-L (2011).
NIMH Special Emphasis Panel, Scientific Review Group, ZRG1 BBBP-L (2010).
National Science Foundation, Major Instrumentation Grants Program (2009).
National Science Foundation, Major Instrumentation Grants Program (2008).
NIMH Special Emphasis Panel, Scientific Review Group, ZRG1 IFCN-L (2009).
NIMH Special Emphasis Panel, Scientific Review Group, ZRG1 BBBP-L (2009).
National Research Council of the National Academy of Sciences -BAST Committee Advisor (2008).
NIMH Special Emphasis Panel, Scientific Review Group, ZRG1 IFCN-E (2008).
NIMH Special Emphasis Panel, IBSC Center Grant Review (2005).
NIMH Special Emphasis Panel, Institutional Training Grants (2004).
NIMH Study Section, Ad hoc member, BBBP-4 (2001).
NIMH Special Emphasis Panel, Institutional Training Grants (2000).
NIMH Study Section, Ad hoc member, BBBP-4 (2000).
NIMH Special Emphasis Panel, Institutional Training Grants (1999).
NIMH Special Emphasis Panel, Institutional Training Grants (1998).
NIMH Site Visit Team to the Laboratory of Brain and Cognition, NIMH (1998).

NIDA, Special Emphasis Panel, RFP (1997).

Ad Hoc Referee (sample)

Wellcome Trust, U.K., Medical Research Council, U.K., United States-Israel Binational Science Foundation, National Science Foundation, Human Frontier Science Program, German Science Foundation (DFG), Dutch Science Foundation (NWO).

Scientific Society and Other Advisory Boards:

Council Representative, Federation of Associations in Behavioral and Brain Sciences (FABBS) (2019-)
Interim President, then President, Cognitive Neuroscience Society (2016 - present).
Treasurer and *Ex Officio* Member, Governing Board, Cognitive Neuroscience Society (1994- present)
Chair, 20th Anniversary Program Committee, Cognitive Neuroscience Society (2013 meeting).
External Advisory Board, University of Missouri Imaging Center, Columbia, MO (2006-2011)
External Advisory Board, Academy of Finland, Center for Excellence, Helsinki Univ. of Tech. (2005- 2010)
External Advisory Board, University of Rochester Imaging Center, New York (2002 - present)
Scientific Advisory Committee, Leibniz Program for Neuroscience, Univ. of Magdeburg, Germany (2000-18)
Scientific Advisory Committee, Center for Advanced Imaging Magdeburg (CAIM), University of Magdeburg, Germany (2000-18)
Scientific Advisory Board, International Conf. on Functional Mapping of the Human Brain (1996-2004 meetings)
Organizing Committee, Association for the Scientific Study of Consciousness, 5th Annual Meeting (2001)
U.S. Organizing Committee, EPIC International Conference (1998 meeting).
Organizing Committee, 38th Annual Meeting of Soc. for Psychophysiological Research (1998 meeting)
International Organizing Committee, 8th World Congress of Psychophysiology (1996)
Governing Committee, Cognitive Neuroscience Society (1994 -1996)
Co-Director, McDonnell Summer Institute in Cognitive Neurosciences (1992, 1997)
Chair, Founding Committee, Cognitive Neuroscience Society (1992-94)

Society Memberships:

Society for Neuroscience, Cognitive Neuroscience Society, Association for Psychological Science, International Brain Research Organization, American Association for the Advancement of Science, Vision Sciences Society

UNIVERSITY SERVICE (exclusive of past service as Dean; available on request)

Current

College of Letters and Science Diversity, Equity and Inclusion Committee, Founding Member & Co-Chair (2023-)
Neuroscience Graduate Group Advising Committee (2022-24)
Neuroscience Strategy Steering Committee, UC Davis (2019-)
Neuroscience Graduate Group Diversity, Equity, Inclusion and Mentoring Committee; Founding Member (2020-)
MIND Institute IDDRC Campus Advisory Committee (2019-)
Executive Advisory Committee (Chair), Imaging Research Center, UC Davis (2015-)

Past

LIAN (Large Interdisciplinary Applications in Neuroscience) Organizational Committee (2022-23)
COVID-19 Research Ramp-Up Task Force (Chair), UC Davis CMB (2020-23)
Graduate Studies Anti-Racist Workgroup (2020-21)
Ad Hoc Member, Campus COVID-19 Symptom Survey Pilot Committee (2020)
Chancellor's Faculty Honors Committee (2017-19)
IMPACT Pre-Proposal Review Committee, OVCR, UC Davis (2019)
Departmental Representative to Academic Senate, UCD (1997-98 & 2017-2019)
Executive Committee, NIH Training Program in Neuroscience (2007-2015)
Neuroscience Graduate Group Admissions Committee (2017, 2018)
Ad hoc review committee (Chair), Nursing Graduate Programs (2016-17)
Committee on the 21st Century University, Office of the Chancellor (2014-15)
Strategic Planning Committee on Diversity & Inclusion, Office of the Chancellor (2014-15)
Steering Committee, UC Davis NSF ADVANCE Program (2013-15)
Campus Council on Community and Diversity (2013-15)
Executive Committee, UC Davis-NIH Neurotherapeutics Research Institute (2007-2010)

Search Committee Chair, Dean of Biological Sciences (2010-2011)
Search Committee Chair, Director Search, Center for Neuroscience (2010)
Search Committee Chair, Director Search, Inst. for Govern. Affairs, UCD Office of the VC for Research, (2009)
Search Committee Member, Director Search, Center for Neuroscience (2009)
Advisory Committee, Center for Neuroscience, UC Davis (2003-2008)
Executive Advisory Committee (Chair), Imaging Research Center, UC Davis (2003-2011)
Executive Committee, Graduate Program in Neuroscience (2005-2008)
Search Committee Member, Neurology Chair Search, UCDMC (2003-06)
Search Committee Chair, M.I.N.D. Institute Electrophysiology position, UCDMC (2003-06)
Search Committee, Director of Imaging Research Center, UCDMC (2002-03).
Academic Priorities Committee (Advisory to Provost), Duke University, (1999-2002)
Executive Committee, Brain Imaging and Analysis Center, Duke School of Medicine, (1999-2002)
Search Committee, Chair of Dept. of Neurobiology, Duke School of Medicine (2001-02)
Chair, Executive Committee, Program in Neural Analysis and Engineering, Duke University, (2000-2002)
Chair, Training Program in Cognitive Neuroscience, Duke, (2000-2002)
Graduate Studies Committee in Psychology, Duke, (2001-2002)
Steering Committee, Neurobiology Department, Duke School of Medicine, (2001-2002)
Search Committee, Dean, Duke School of Medicine (Campus Representative), Duke University, (2000-01)
Provost's Academic Advisory Council, UCD (1997-98)
Dean's Advisory Committee, Division of Social Sciences, UCD (1996-1998)
Chair, Admissions Committee, Department of Psychology, UCD (1997-1998)
Chair, Mind Sciences Committee, Subcommittee of Academic Planning Council, UCD (1996-1998)
Head, Cognition and Perception Section, Department of Psychology, UCD (1996-1999)
Executive Committee, Graduate Program in Neurosciences, UCD (1997-1998)
Chair, Graduate Curriculum Committee in Psychology, UCD (1997-1998)

TEACHING EXPERIENCE

UC Davis

Instructor, Cognitive Neuroscience (Psc 135)
Instructor, Professional Development (Psc 290, graduate seminar)
Instructor, Cognitive Neuroscience (Psc 261/Nsc223; neuroscience core course)
Instructor, Neuroscience of Attention, Awareness and Consciousness (Psc 198) (Senior Capstone Seminar)
Instructor, Mind and Brain: Attention and Awareness (Frs 001) (Freshman Honors Seminar).
Instructor, Mechanisms of Attention (Psc 290; graduate seminar)
Instructor, Cognitive Psychology (Psc 230; graduate core course).
Instructor, Cog. Neurosci. of Attention and Awareness (Psc 290/Neu 234; graduate seminar)
Instructor, Sensory Processes (undergraduate major course).

Duke University

Instructor, Cognitive Neuroscience, Duke University (developed graduate core course)
Instructor, Cognitive Neuroscience, Duke University, (developed undergraduate lecture course).
Instructor, Mind, Brain & Cognition, Duke University, (FOCUS PROGRAM - Freshman honors).

Dartmouth College

Instructor, Special Topics in Cognitive Neurosci., Dartmouth, (developed graduate elective).
Lecturer, Neurosciences III, Dartmouth Medical School, (core course).
Instructor, Neurobiology of Attention, Dartmouth, (developed graduate elective).
Instructor, Perspectives in Cog. Neurosci., Dartmouth, (graduate elective course).
Lecturer, Neurosciences (graduate), Dartmouth, (core course).
Guest Lecturer, Gross Anatomy, Brown University, 1990-92.
Lecturer, Vision (graduate) Dartmouth, 1990.

UC San Diego

Lecturer, Neurophysiology (graduate), UCSD, 1989 and 1990.
Lecturer, Physiol. Basis of Human Info Proc. (graduate), UCSD, 1989.
Teaching Assistant, Medical Neurology (medical), UCSD, 1984 and 1985.

Teaching Assistant, Mammalian Neuroanatomy (graduate) with Larry Swanson, UCSD, 1983.

RESEARCH INTERESTS

Neural mechanisms of visual attention
Cognitive neuroscience of perception, attention and awareness
Disorders of attention
Human brain electrophysiology
Functional neuroimaging
Multimodality imaging

STUDENTS/POSTDOCS SUPERVISED

Current: ***(members of Mangun lab)***

Sreeni Meyyappan, Ph.D. (Biomedical Engineering), Postdoc, UC Davis, currently.
Eleanora Beier, Ph.D. (Psychology), Postdoc (NIH NRSA Fellow), UC Davis, currently.
Lee Holcomb, Doctoral Student, UC Davis, Psychology, currently.
John Nadra, Doctoral Student (NEI Trainee), UC Davis, Psychology, currently.
Soukhin Das, Doctoral Student, UC Davis, Psychology, currently.
Travis Powell, Doctoral Student, UC Davis, Psychology, currently.

Undergraduate research interns: Tyler Statema, Henry Yi, Mikayla Hwang , Ava Hutchins, Grace Sullivan, Megan Wong, Jose Samano Catalan, Ellie Covarrubias, Lana Abrera, Hao Ngo, Sophia Kinnear

Past: (sample)

Currently Holding Faculty or Major Research Positions:

*Andre Bastos, Ph.D., (NSF Fellow; doctoral student, UC Davis, Neuroscience, 2008-2013). Currently, Assistant Professor of Psychology, Vanderbilt University.
Yuelu Liu, Ph.D., Postdoctoral Fellow (2013-2017). Currently, Staff Data Scientist, Vungle Inc., San Francisco.
Xiangfei Hong, Ph.D., (Visiting doctoral student, UC Davis, 2012-14) Currently, Research Scientists, Shanghai Mental Health Center, Shanghai Jiao Tong University School of Medicine, China.
*****Jesse Bengson, Ph.D., (Psychology doctoral student and then postdoctoral fellow, UCD Center for Mind and Brain 2005-2015). Currently, Staff Scientist, Google, Inc.
Farran Briggs, Ph.D., (postdoctoral fellow, UCD Center for Neuroscience 2009-2012). Currently, Associate Professor, Department of Neuroscience, University of Rochester.
Jaap Munneke, (visiting doctoral student, UCD Center for Mind and Brain, from Free University of Amsterdam, 2009), Currently, Lecturer, Brunel University London.
Yukare Takarae, Ph.D., (postdoctoral fellow, UCD Center for Mind and Brain 2009-2012). Currently, Research Scientist, UC San Diego.
Todd Kelly, Ph.D. (postdoctoral fellow, UCD Center for Mind and Brain, 2010-2012), Currently, User Research Engineer, Microsoft Studios, Seattle, Washington.
Chris Blais, Ph.D. (postdoctoral fellow, UCD Center for Mind and Brain, 2010-2012), Currently, Assistant Research Professor, Hugh Downs School of Communication, Arizona State University.
Ali Mazaheri, (postdoctoral fellow, UCD Center for Mind and Brain, 2008-2009), Currently, Associate Professor (tenured), University of Birmingham, United Kingdom.
Joy Geng, Ph.D., (postdoctoral fellow, UCD Center for Mind and Brain, 2006-2008). Currently, Associate Professor of Psychology (tenured), University of California, Davis.
Barry Giesbrecht, Ph.D., (postdoc, Ctr for Cognitive Neuroscience, Duke Univ.). Currently: Professor of Psychology (tenured), University of California, Santa Barbara.
*Sean P. Fannon, (doctoral student, Ph.D. in Psychology, Duke University, 2000-2006). Currently Professor of Psychology (tenured), Folsom College, California.
Daniel Weissman, Ph.D., (postdoc, Ctr. for Cognitive Neuroscience, Duke Univ., 1998-2002). Currently Professor of Psychology (tenured), University of Michigan.

Kevin Wilson, Ph.D., (postdoc, Ctr. for Cognitive Neuroscience, Duke Univ., 1998-2004) Currently: Associate Professor of Psychology (tenured), Gettysburg College, Pennsylvania.

Michael D. Nelson, Ph.D., (postdoc, Ctr. for Cognitive Neuroscience. Duke Univ,) Currently: Associate Professor of Psychology (tenure-track), Gonzaga University.

*Joseph B. Hopfinger, (doctoral student, Ph.D. in Psychology, UC Davis, 1994-1998). Currently, Professor of Psychology (tenured), University of North Carolina, Chapel Hill.

*Amishi P. Jha, (doctoral student Ph.D. in Psychology, UC Davis, 1993-1998). Currently, Professor of Psychology (tenured), University of Miami, Florida.

Joseph Dien, Ph.D., (postdoc, Center for Neuroscience, UC Davis, 1997-99). Currently, Senior Research Associate, University of Maryland.

*Todd C. Handy, (doctoral student, Ph.D. in Psychology, UC Davis, 1994-1997). Currently, Professor of Psychology (tenured), University of British Columbia.

Alan Kingstone, Ph.D., (postdoc, Center for Neuroscience, UC Davis, 1992-95). Currently, Professor of Psychology (tenured), University of British Columbia, Canada.

Emrah Duezel, M.D. (postdoc, Center for Neuroscience, UC Davis, 1996). Currently, Professor of Cognitive Neuroscience (tenured) University College London, U.K., and Professor of Neurology (C3 – tenured), University of Magdeburg, Germany.

Kent Kiehl, B.A., (postgraduate researcher, Psychology, UC Davis (1996-97); Received Ph.D. at University of British Columbia in 2001. Currently, Professor of Psychology and Neuroscience (tenured), University of New Mexico.

Alice Mado Proverbio, Ph.D., (postdoc, Center for Neuroscience, UC Davis, 1993-94). Currently, Associate Professor of Psychology (tenured), University of Milan-Bicocca, Italy.

Jens-Max Hopf, M.D. (postdoc, Center for Neuroscience, UC Davis, 1996-97). Currently, Professor of Neurology, University of Magdeburg, Germany.

Undergraduate research interns (past, since 2015 only): Alex Morales, Aviel Haberman, Manvita Tatavarthy, Kira Anderson, Jamie Napan, Kelsey Klein, Diana Olivan, Natalie Khodayari, Maddy Chamberlain, Tamim Housain, Atish Kumar, Wenqing Wang, Jessica Burklow, Kyle Astleford, Sai Katta, Air Singh, Lynn Fadel, Kira Anderson, Jamie Napan, Natalie Khodayari, Kelsey Klein (ASPIRE Fellow), Eliya Ben-Asher, Travis Powell

High School Summer Interns (past, since 2019-): James Olichney, Ellie Dickinson, Stella Jia, Caleigh Greenway

Currently in Training Positions:

*Sean Noah, Ph.D., (Psychology doctoral student, 2017-21), Currently, Postdoctoral Fellow UC Berkeley.

* Received Ph.D. with G.R.M. as major professor.

GRANT HISTORY

ACTIVE:

NSF BCS 2318886 (P.I., Mangun, G.R.) "Mechanisms of Willed Attention". 09/01/23-8/31/26. This grant uses EEG and fMRI to investigate the cognitive neural mechanisms of intention, free will and attention. Total Award: $910,000

NIMH R01 MH117991 (P.I., Mangun, G.R.; Joint P.I., Ding, M.) "Mechanisms of attentional control: Structure and dynamics from simultaneous EEG-fMRI and machine learning" 06/08/2018 – 02/28/2025. This grant uses simultaneous EEG and fMRI recordings, advanced signal processing, and machine learning to investigate the fine structure of attentional control in humans. Total Award: $2.7M

NIMH R21MH130924 (P.I., Schweitzer, J., M.P.I., McClure, S.) "Investigation of Locus Coeruleus Function in Sustained Attention" 09/01/2022 – 08/31/24. This grant will investigate the functions of the locus coeruleus in attention. Role: Investigator. Total Award: $500,00

Kavli Foundation (P.I., Mangun, G.R.) "Kavli Summer Institute in Cognitive Neuroscience. 08/02/2015 – 06/30/2024. This grant supports NIMH grant MH057541 in conjunction with the Summer Institute in Cognitive Neuroscience to advance training in engineering and physical sciences as they contribute to cognitive neuroscience training and research. Total Award: $375,000

Toyota-Boshuko (P.I.s Siminovitch, M., & Mangun, G.R.) "Physiological measures of stress reduction with ambient lighting" 7/1/22-9/30/23 $75,000

ACTIVE (Training Grants and Fellowships):

NIMH R25MH080794 (P.I., Luck, S.) "Yearly Workshop in the Event-Related Potential Technique" 01/01/2019 – 12/31/23 Role: Training Mentor

NEI T32 EY015387 (P.I., Burns, M.) "Training Program in Vision Science" 09/01/2018 - 08/31/2023. Role: Training Mentor.

NIMH T32 MH082174 (P.I., Usrey, W.M.) "Training Grant in Basic Neuroscience" 08/03/2019-07/31/2024 Role: Training Mentor.

NSF 2152260 (P.I., Moxon, K.) "NeuralStorm: Taking Neuroengineering by Storm" 07/01/2022-06/30/2027 Role: Training Mentor.

F32 HD108937-01A1 (Fellow, Beier, N.) "The Role of Temporal Prediction in Guiding Attention Through Time During Language Comprehension" 09/01/2022 – 08/31/25 Role: Co-Mentor.

PENDING:

NIMH 1R01 MH117991 (P.I., Mangun, G.R.; M.P.I., Ding, M.) "Mechanisms of attentional control: Structure and dynamics from simultaneous EEG-fMRI and machine learning".

NIMH R01MH134043 (P.I., Mangun, G.R.; M.P.I., Ding, M.) "Neural Mechanisms of Willed Attention Control".

T32MH132521 (P.I., Mangun, G.R., M.P.I., Guyer, A.) "Training Program in Cognitive Control".

R21MH133009 (P.I., Meyyappan, S.) "Neural oscillatory mechanisms of feature attention control" Role: Investigator.

NSF STC 1470 (P.I., Yoo, B.) "NSF Science and Technology Center for Brain, AI, and Neuromorphic Computing (BrAIN)" 09/01/2023 – 08/31/28. Role: Co-PI.

PAST:

NIMH 2R25 MH057541-23 (P.I., Mangun, G.R.) "Summer Institute in Cognitive Neuroscience" 08/02/2015 – 06/30/2022. This is a training grant for doctoral and postdoctoral trainees. Total Award: $1.15M

NIA T32 AG050061 (P.I., DeCarli, C.) "Neuroscience of Cognitive Aging" 05/01/2016 - 04/30/2022. Role: Training Mentor.

NIMH T32MH112508 (P.I., McAllister, K.) "Learning, Memory and Plasticity Training Program". 07/01/2022 - 06/30/2027 Role: Training Mentor.

NSF BCS 1339049 (P.I., Mangun, G.R.) "Mechanisms of Willed Attention" 08/15/13 – 06/30/16; This grant is investigating the mechanisms of free will in the control of visual attention.

NSF IOS 1450960 (P.I.s Usrey & Mangun) "BRAIN EAGER: "ECOSTIM-MR"-Novel Multimodal Approach for High-Resolution Brain Research" 09/15/14 – 09/14/16. This grant is developing new technology related to the federal BRAIN Initiative.

NSF BCS 1228535 (P.I.s Usrey & Mangun) “Mechanisms of Attention in Early Visual Processing” 08/15/2012 – 07/31/2016. This grant investigates neurophysiological mechanisms of attention.

Kavli Foundation (P.I., Mangun, G.R.) “Emerging Technologies for Neuroscience: Building the New Brain Science. 5/15/14 –12/31/15. This grant supported a *Kavli Futures Symposium* in conjunction with the NIMH Summer Institute in Cognitive Neuroscience, 2015.

NIMH 1R21MH099327 (P.I.’s Swaab & Carter) “Cognitive Control and Language Impairments in Schizophrenia” 12/01/12 – 11/30/15. This grant investigates cognitive deficits in schizophrenia.

NIMH 2R25 MH05754 (P.I., Mangun, G.R.) “Summer Institute in Cognitive Neuroscience” 08/02/2010 – 06/30/2015

NIMH 1R01 MH087450 (P.I., Luck, S.J.) “ERPLAB: Extensible, open source software for analysis of event-related potentials” 12/01/09-11/31/14 Role: Steering Committee Member

NIMH 5R01 MH055714 (P.I., Mangun, G.R.) " ERP and fMRI Studies of Visual Attention", 06/01/1997-11/30/2013.

NIDA TL1 DA024854 (P.I., Carter, C) “Interdisciplinary Training Program in Neurotherapeutics” 09/01/07-06/30/12 Role: Co-PI (Training component of NCRR U54 RR024922-01 “ NeuroTherapeutics Research Institute”)

NIMH 5R01 MN084819 (P.I.s, Makeig, S. & Grethe, J.) “A Human Electrophysiology Associated Anatomic Data and Integrated Tool Resource” 04/17/09-02/28/12, Role: Co-Investigator and Advisory Board Member. This grant is a collaboration with UCSD which is the home institution.

NIMH R01 MH059883 (P.I., Carter, C.S.) “Pathophysiology of Cognitive Disability in Schizophrenia” 7/1/07-6/30/12, Role: Co-Investigator

NIMH 1R24 MH081807 (P.I., Carter, C.S.) “Cognitive Control in Schizophrenia” 7/1/08-6/30/11. Role: Co-Investigator

NSF BCS-0727115 (P.I., Mangun, G.R.) “Combined Human Studies of Thalamo-Cortical Mechanisms in Attentional Control”, 07/01/07 – 06/30/11.

Fetzer Foundation, (P.I., Saron, C.) “A Longitudinal, Randomized Waitlist Control Study of Cognitive, Emotional, and Neural Effects of Intensive Meditation Training “, 1/01/06-12/31/11, Role: Co-PI

NCRR 1S10RR0129262 (P.I. Carter, C.S.) “High Field MRI Scanner for Integrative Neuroscience” 12/01/09-11/30/10. Role: Co-PI.

NCRR 1S10 RR025672 (P.I., Buonocore, M.H.) “3T MRI Upgrade for Advanced Imaging Studies in Clinical and Basic Neuroscience” 04/01/09-03/31/10. Role: Co-PI

NIMH K05 MH02019 "Neural Mechanisms of Attentional Control and Selection", 75% effort, Principal Investigator, 3/01/01 - 2/30/06. Direct = $117,000/yr (Senior Scientist Award).

NIDA R13 DA018547 “Multiple Perspectives on Decision Making”, 04/01/04-06/30/04. Direct Costs = $25,000 (Conference grant)

NINDS P01 NS41328 "Neural Mechanisms of Voluntary Attention and Orienting", 10% effort, Co-PI (Project 2), 09/27/01-09/26/06, Direct = $138,500 yr 1. (Program Project Section).

NIMH R01 MH60415 (P.I., Woldorff, M), "Studies of attention using combined ERPs and fMRI", 5% effort, 04/01/01-03/30/06, Direct costs = $250,000 yr 1. (Research Grant).

NIMH RO3 MH (PI, Brannon, E.M.) “Electrophysiological correlates of numerical discrimination in human infants” 5% effort, 01/01/02 - 01/01/04, Direct costs = $50,000 each year (Small Grant).

NINDS P01 NS41328 (Proj. 2 P.I., Mangun, G.R.) "Neural Mechanisms of Voluntary Attention and Orienting", 10% effort, 09/27/01-09/26/02 Direct = $138,500 yr 1. (Program Project Section).

Army Research Office DAAD19-00-1-0503 (P.I., Mangun, G.R.) "Brain Attention Mechanisms in Perception and Performance", 5% effort, 09/01/00-08/31/02, Direct Costs $58,432 yr 1. (Research Grant).

NIMH R01 MH57138 (P.I., Mangun, G.R.) "Integration of ERPs and fMRI in Studies of Selective Attention" 10% effort, 04/01/98 - 03/30/02.

NIMH R01 MH55714 (P.I., Mangun, G.R.) "Combined PET and ERP Studies of Selective Attention" 10% effort, 04/01/97 - 04/31/00.

HFSPO RG0136/1997-B (Program Director: Mangun, G.R.) "Converging Approaches to the Study of Selective Attention", 10% effort, 07/01/97 - 6/30/00.

NINDS 2 P01 17778 (Proj. 2 P.I., Mangun, G.R.) "Brain Mechanisms of Visual Selective Attention", 10% effort, 07/01/94-06/30/99.

NIMH 1 K21 MH00930-05 (P.I., Mangun, G.R.) "Neural Mechanisms of Selective Attention in Humans", 80% effort, 04/1/91-03/31/96.

NIMH R03 MH54115-01 (P.I., Mangun, G.R.) "Combined PET and ERP Studies of Selective Attention", 5% effort, 05/01/95-04/30/96.

University of California Faculty Research Grant, (P.I., Mangun, G.R.) "Selective Attention to Stimulus Dimension and Spatial Position: Function Anatomy with fMRI", 10% effort, 07/01/96-06/30/97.

University of California Faculty Research Grant, (P.I., Mangun, G.R.) " Combined PET and ERP Studies of Attention ", 5% effort, 07/01/94-06/30/95.

Human Frontiers Science Program Organization, (P.I., Gazzaniga, M) "Brain Mechanisms of Perception, Attention and Cognition: The Split-Brain Approach", 5% effort, Role: Co-PI, 07/01/92-06/31/95.

NINDS 7 P01 NS 17778-08 "Cortical Networks in Auditory Pattern Perception: Cognitive, Anatomic and Physiologic Correlates" (Project 3, Program in Cognitive Neuroscience), 5% effort, Co-Principal Investigator (Project 3), 07/01/91-06/30/95.

NINDS 7 P01 NS 17778-08 "Brain Mechanisms of Overt and Covert Orienting" (Project 4, Program in Cognitive Neuroscience), 10% effort, Co-Principal Investigator (Project 4), 07/01/91-06/30/95.

Hitchcock Foundation Grant, (P.I., Mangun, G.R.) "Electrophysiological Studies of Visual-Spatial Attention in Patients with Damage to the Parietal Cortex." 5% effort, 05/1/91-04/31/92; Direct Costs 1991-92 $5,000.

NIMH 5 R01 MH25594-16 (P.I., Hillyard, S.A.) "Electrophysiological Studies of Selective Perception", 25% effort, 07/01/88 - 07/01/90. Role: Co-PI. Received MERIT Award from NIMH.

NIMH NRSA 5 F31 MHJ09360-03 (Fellow: Mangun, G.R.) "The Neural Basis of Selective Attention in Man", 50% effort, 10/1/85 - 12/31/87.

PAST (AS SPONSOR):

NEI K99/R00 EY018683 (P.I., Briggs, F). "Effects of spatial attention on neuronal circuits in the early visual system" 7/1/09-6/30/14. Role: Co-mentor (with Marty Usrey).

NIMH 5K01 MH087720 (P.I., Takarae, Y.) "Electrophysiological Correlates of Inhibitory Control and Error Monitoring in Autism" 12/01/09-11/30/14 Role: Co-mentor (with Cliff Saron).

NSF 2009 "Oscillatory EEG and Attention" (Bastos, Andre – fellow) 7/1/2010-6/30/2013 (NSF Graduate Fellowship), Role: Sponsor (deferred to 7/1/2010 to accept Fulbright Fellowship). Role: Co-sponsor (with Marty Usrey).

NSF 2012 "Investigating Neural Mechanisms Underlying Sustained Attention with Meditation Training" (Hamidi, Anahita – fellow) 7/1/2012-6/30/2013 (NSF Graduate Fellowship), Role: Co-sponsor (with Cliff Saron).

NSF 2004 "Attention, Training and Meditation" (MacLean, Katherine, Fellow) 7/1/2004-6/30/2007 (NSF Graduate Fellowship), Role: Sponsor.

NWO (Netherlands Organization for Scientific Research) "Oscillatory EEG Measures of Attention" Sponsor (Mazaheri, A., Fellow), 08/1/08 -07/31/09.

NWO (Netherlands Organization for Scientific Research) "Cognitive Neuroscience of Attention" Sponsor (Bekker, E.M., Fellow), 05/1/05 -04/30/06.

NINDS F32 NS41867 "Neural correlates of Global and Local Processing" Sponsor (Weissman, D., Fellow), 12/01/00-11/30/03.

NSF 2000 "Neural Mechanisms of Visual Attention" Sponsor, (Fannon, S., Fellow), 07/01/00-6/30/03, Direct = $26,700/yr.

McDonnell Foundation 99-36 "Time course and functional anatomy of attentional control" Sponsor, (Giesbrecht, B., Fellow), 09/01/99-08/31/02, Direct Costs $50,000 yr 2.

McDonnell Foundation 20002042 , "Reference Frame Effects in the Top-Down Control of Visual Attention" Sponsor (Wilson, K.D., Fellow), 08/01/00-08/01/03, Direct Costs $50,000 yr 1.

NSF Graduate Fellowship (Hopfinger, J., Fellow) "Studies of Visual Attention" 07/01/95 - 06/30/98.

NIMH 1F31MH11427 Graduate Fellowship (Jha, A., Fellow) "ERP Studies of Attention Following Parietal Damage" 10/01/96-09/30/98.

NIMH 1F32MH11751 Postdoctoral Fellowship (Dien, J., Fellow) "Time course of Selective and Divided Attention Systems. 8/1/97-7/31/98.

PATENTS

Title: Stress Mitigating Lighting
US Patent Application #: 63/484,648
Application Date: February 13, 2023
Country: United States
Invented By: Michael Siminovitch, Jae Yong Suk, George R. Mangun, Sreenivasan Meyyappan, Camelia E. Hostinar Caudill

PUBLICATIONS

Edited Books, Textbooks, Special Issues

Heinze, H.J., Muente, T.F. and Mangun, G.R. (Editors), (1993). New Developments in Event-Related Potentials, Birkhauser: Boston.

Heinze, H.J., T.F., Muente and Mangun, G.R. (Editors), (1994). Cognitive Electrophysiology, Birkhauser: Boston.

Gazzaniga, M.S., Ivry, R. and Mangun, G.R. (1998). Cognitive Neuroscience: The Biology of the Mind. (1st Edition). W.W. Norton: New York (textbook).

Mangun, G.R. and Guzeldere, G. (Guest Editors) (2002). The contents of consciousness. Consciousness and Cognition, 11(4) 481-687 (Special Issue).

Mangun, G.R. and Guzeldere, G. (Guest Editors) (2002). The Science of Consciousness. PSYCHE, Vol. 9 (Special Issue/online journal).

Gazzaniga, M.S., Ivry, R. and Mangun, G.R. (2002). Cognitive Neuroscience: The Biology of the Mind. (2nd Edition). W.W. Norton: New York (textbook).

Mangun, G.R. (Issue Editor) (2002) Neural Mechanisms of Executive Control in Cognition. Cognitive Brain Research, Vol. 15, (Special Issue).

Mangun, G.R. and Luck, S.J. (Section Editors) (2009). Attention. In: Gazzaniga, M.S. (Editor) The Cognitive Neurosciences IV. MIT Press: Cambridge, MA.

Gazzaniga, M.S., Ivry, R. and Mangun, G.R. (2009). Cognitive Neuroscience: The Biology of the Mind. (3rd Edition). W.W. Norton: New York (textbook).

Reuter-Lorenz, P.A., Baynes, K., Mangun, G.R., Phelps, E.A. (Editors) (2010). The Cognitive Neuroscience of Mind: A Tribute to Michael S. Gazzaniga. MIT Press: Cambridge, MA.

Mangun, G.R. (Editor) (2012). The Neuroscience of Attention: Attentional Control and Selection. Oxford University Press: New York.

Mangun, G.R. (Associate Ed.) (2013). The New Visual Neurosciences. (Chalupa, L. Werner, J., Eds.) MIT Press: Cambridge, MA.

Gazzaniga, M.S., Ivry, R. and Mangun, G.R. (2013). Cognitive Neuroscience: The Biology of the Mind. (4th Edition). W.W. Norton Pub., New York (textbook). *Translated into French, Italian, Portuguese, and Chinese.*

Mangun, G.R. (Editor) (2013). Cognitive Electrophysiology of Attention: Signals of the Mind. Academic Press: New York.

Gazzaniga, M.S. and Mangun, G.R. (Editors) (2014). The Cognitive Neurosciences (5th Edition). MIT Press: Cambridge, MA.

Gazzaniga, M.S., Ivry, R. and Mangun, G.R. (2019). Cognitive Neuroscience: The Biology of the Mind. (5th Edition). W.W. Norton: New York (textbook).

Poeppel, D., Mangun, G.R. & Gazzaniga, M.S. (Editors) (2020). The Cognitive Neurosciences (6th Edition). MIT Press: Cambridge, MA.

Mangun, G.R. & Meyyappan, S. (Editors) (in progress). Multimodal Imaging in Cognitive Neuroscience. Biological Psychology, (Special Issue).

Papers and Chapters

1. Mangun, G.R., J.C. Hansen and S.A. Hillyard (1986). Electroretinograms reveal no evidence for centrifugal modulation of retinal inputs during selective attention in man. Psychophysiology, 23:156-165.

2. Hillyard, S.A. and G.R. Mangun (1986). The neural basis of visual selective attention: A commentary on Harter and Aine. Biological Psychology, 23: 265-270.

3. Mangun, G.R., R.M. Mulkey, B. Young and G.E. Goslow, Jr. (1986). "Cross-talk" in Electromyograms: Contamination of EMGs recorded with bipolar, fine-wire electrodes by volume conducted myoelectric activity from distant sources. Electromyography and Clinical Neurophysiology, 26: 443-461.

4. Mangun, G.R. and S.A. Hillyard (1987). The spatial allocation of visual attention as indexed by event-related brain potentials. Human Factors, 29: 195-212.

5. Hillyard, S.A., M. Woldorff, G.R. Mangun and J.C. Hansen (1987). Mechanisms of early selective attention in auditory and visual modalities. In R.J. Ellingson, N.M.F. Murray and A.M. Halliday (Eds.), The London Symposia, Elsevier: Amsterdam, (pp. 317-324).

6. Mangun, G.R., J.C. Hansen and S.A. Hillyard (1987). The spatial orienting of attention: Sensory facilitation or response bias? In R. Johnson, Jr., J.W. Rohrbaugh and R. Parasuraman (Eds.), Current Trends in Event-Related Potential Research. Elsevier: Amsterdam, (pp. 118-124).

7. Hillyard, S.A. and G.R. Mangun (1987). Sensory gating as a physiological mechanism for visual selective attention. In R. Johnson, Jr., J.W. Rohrbaugh and R. Parasuraman (Eds.), Current Trends in Event-Related Potential Research. Elsevier: Amsterdam, (pp. 61-67).

8. Mangun, G.R. and S.A. Hillyard (1988). Spatial gradients of visual attention: Behavioral and electrophysiological evidence. Electroencephalography and Clinical Neurophysiology, 70: 417-428.

9. Luck, S.J, S.A. Hillyard, G.R. Mangun, and M.S. Gazzaniga (1989). Independent hemispheric attentional systems mediate visual search in split-brain patients. Nature, 342: 543-545. doi: 10.1038/342543a0. PMID: 2586625
10. Mangun, G.R. and S.A. Hillyard (1990). Electrophysiological studies of visual selective attention in humans. In A.B. Scheibel and A. Wechsler (Eds.), The Neurobiological Foundations of Higher Cognitive Function. Guilford Press: New York, (pp. 271-296).

11. Mangun, G.R. and S.A. Hillyard (1990). Allocation of visual attention to spatial locations: Tradeoff functions for event-related brain potentials and detection performance. Perception and Psychophysics, 47: 532-550.

12. Heinze, H.J., S.J. Luck, G.R. Mangun, and S.A. Hillyard (1990). Visual event-related potentials index focused attention within bilateral stimulus arrays: I. Evidence for early selection. Electroencephalography and Clinical Neurophysiology, 75: 511-527.

13. Luck, S.J., H.J. Heinze, G.R. Mangun and S.A. Hillyard (1990). Visual event-related potentials index focused attention within bilateral stimulus arrays: II. Functional dissociation of P1 and N1 components. Electroencephalography and Clinical Neurophysiology, 75: 528-542.

14. Heinze, H.J., G.R. Mangun and S.A. Hillyard (1990). Visual event-related potentials index perceptual accuracy during spatial attention to bilateral arrays. In C.H.M. Brunia, A.W.K Gaillard and A. Kok (Eds.), Psychophysiological Brain Research. Vol. 1, Tilburg University Press: Tilburg (pp. 196-202).

15. Hillyard, S.A., G.R. Mangun, S.J. Luck and H.J. Heinze (1990). Electrophysiology of visual attention. In E.R. John, T. Harmony, L. Prichep, M. Valdez and P. Valdez (Eds.). Machinery of Mind. Birkhauser: Boston (pp. 185-205).

16. Mangun, G.R. and S.A. Hillyard (1991). Modulation of sensory-evoked brain potentials provide evidence for changes in perceptual processing during visual-spatial priming. Journal of Experimental Psychology: Human Perception and Performance, 17: 1057-1074. PMID: 1837297

17. Mangun, G.R. (1992). Human brain potentials evoked by visual stimuli: Induced rhythms or time-locked components? In E. Basar and T. H. Bullock (Eds)., Induced Rhythms in the Brain. Birkhauser: Boston (pp. 217-231).

18. Mangun, G.R., S.A. Hillyard and S.J. Luck (1993). Electrocortical substrates of visual selective attention. In D. Meyer and S. Kornblum (Eds.), Attention and Performance XIV. (pp. 219-243). MIT Press: Cambridge, MA.

19. Munte,T.F., H.J. Heinze and G.R. Mangun (1993). Dissociation of negative ERP components produced by incongruities in grammatical and semantic judgment tasks. Journal of Cognitive Neuroscience, 5: 335-344.

20. Mangun, G.R. (1994). Orienting attention in the visual fields: An electrophysiological analysis. In: H.J. Heinze, T.F. Munte and G.R. Mangun (Eds.), Cognitive Electrophysiology: Event-Related Brain Potentials in Basic and Clinical Research, Birkhauser: Boston. pp. 81-101.

21. Hillyard, S.A., S.J. Luck and G.R. Mangun (1994). The cuing of attention to visual field locations: Analysis with ERP recordings. In: H.J. Heinze, T.F. Munte and G.R. Mangun (Eds)., Cognitive Electrophysiology: Event-Related Brain Potentials in Basic and Clinical Research, Birkhauser: Boston. pp. 1- 25.

22. Heinze, H.J., T.F. Munte, S. Johannes and G.R. Mangun (1994). The order of global-local information processing: Electrophysiological evidence for parallel perceptual processes. In: H.J. Heinze, T.F. Munte and G.R. Mangun (Eds.), Cognitive Electrophysiology: Event-Related Brain Potentials in Basic and Clinical Research, Birkhauser: Boston. pp. 102-123.

23. Ladavas, E., M. De Pesce, G.R. Mangun and M.S. Gazzaniga (1994). Variations in attentional bias in the two disconnected cerebral hemispheres. Cognitive Neuropsychology, 11, 57-74.

24. Luck, S.J, S.A. Hillyard, G.R. Mangun, and M.S. Gazzaniga (1994). Independent hemispheric attentional systems mediate visual search in split-brain patients. Journal of Cognitive Neuroscience, 6, 84-91.

25. Mangun, G.R., S.J. Luck, R. Plager, W. Loftus, S.A. Hillyard, V. Clark, T. Handy and M.S. Gazzaniga (1994). Monitoring the visual world: Hemispheric asymmetries and subcortical processes in attention. Journal of Cognitive Neuroscience, 6, 265-273.

26. Heinze, H.J., S.J. Luck, T.F. Munte, A. Gos, G.R. Mangun and S.A. Hillyard (1994). Attention to adjacent and separate positions in space: Electrophysiological evidence for the "zoom lens" model. Perception and Psychophysics, 56, 42-52.

27. Pashler, H., S.L. Luck, S.A. Hillyard, G.R. Mangun, S. O'Brien and M.S. Gazzaniga. (1994) Sequential operation of the cerebral hemispheres in split-brain patients. Neuroreport, 5, 2381-2384.

28. Proverbio, A.M. and G.R. Mangun (1994). Electrophysiological and behavioral costs and benefits during sustained visual-spatial attention. International Journal of Neuroscience, 79: 221-223.

29. Proverbio, A.M., A. Zani, M.S. Gazzaniga, and G.R. Mangun (1994). ERP and RT signs of a rightward bias for spatial orienting in a split brain patient. Neuroreport, 5, 2457-2461.

30. Johannes, S., Mangun, G.R., and Muente, T.F. (1994). Cerebral lateralization in constitutional dyslexia. Electrophysiologic findings. Nervenarzt, 65, 859-864.

31. Heinze, H.J., G.R. Mangun, W. Burchert, H. Hinrichs, T.F. Münte, M. Scholz, A. Gös, S. Johannes, M. Scherg, H. Hundeshagen, M.S. Gazzaniga and S.A. Hillyard. (1994). Combined spatial and temporal imaging of brain activity during visual selective attention in humans. Nature, 372: 543-546. PMID: 7990926

32. Kingstone, A.K., J.T. Enns, G.R. Mangun and M.S. Gazzaniga. (1995). Guided visual search is a left-hemisphere process in split-brain patients. Psychological Science, 6, 118-121. https://doi.org/10.1111/j.1467-9280.1995.tb00317.x

33. Mangun, G.R. (1995) Neural mechanisms of visual selective attention in humans. Psychophysiology, 32, 4-18.

34. Tramo, M., K. Baynes, R. Fendrich, G.R. Mangun, E. Phelps, P. Reuter-Lorenz and M. Gazzaniga (1995). Hemispheric specialization and interhemispheric integration: Insights from experiments in callosotomy patients. In: A. Reeves and D. Roberts (Eds.), Epilepsy and the Corpus Callosum. 2nd ed., Plenum Press: New York.

35. Hillyard, S.A., G.R. Mangun, M.G. Woldorff, and S.J. Luck (1995). Neural systems mediating selective attention. In: M.S. Gazzaniga (Ed.), Cognitive Neuroscience, MIT Press: Cambridge. pp. 665-682.

36. Johannes, S., Munte, T.F., Mangun, G.R. (1995). Electrophysiological findings of color selection processes. EEG-EMG-Zeitschrift Fur Elektroenzephalographie Elektromyographie Und Verwandte Gebiete, 26:83-88.

37. Johannes, S., T.F. Munte, H.J. Heinze and G.R. Mangun. (1995). Luminance and attention effects on early visual processing. Cognitive Brain Research, 2:189-205.

38. Mangun, G.R. and S.A. Hillyard (1995). Attention: Mechanisms and Models. In: M.D. Rugg and M.G.H. Coles (Eds). The Electrophysiology of Mind, pp. 40-85, Oxford University Press: New York.

39. Heinze, H.J. and G.R. Mangun (1995). Electrophysiological signs of sustained and transient attention to spatial locations. Neuropsychologia, 33, 889-908.

40. Mangun, G.R. and Heinze, H.J. (1995). Combining electrophysiology with neuroimaging in the study of human cognition. In: H. Mueller-Gartner (Ed). Supercomputers in Brain Research: From Tomography to Neural Networks. pp. 61-74. World Scientific Pub.: New Jersey.

41. Hillyard, S.A., L. Anllo-Vento, V. Clark, H.J. Heinze, S.J. Luck, and G.R. Mangun (1995). Neuroimaging approaches to the study of visual attention: A tutorial. In: M. Coles et al. (Eds). Converging Operations in the Study of Visual Selective Attention. (pp. 107-138). American Psychological Association.

42. Johannes, S., G.R. Mangun, C. Kussmaul, and T.F. Munte (1995). Brain potentials in developmental dyslexia: Differential effects of word frequency in human subjects. Neuroscience Letters, 195, 183-186.

43. Kingstone, A., Grabowecky, M., G.R. Mangun and Gazzaniga, M.S. (1997). Paying attention to the brain. The study of selective visual attention in cognitive neuroscience. In J. Burak and J. Enns (Eds), Attention, Development, and Psychopathology. (pp. 263-287). NY: Guilford Publications.

44. Handy, T., A. Kingstone and G.R. Mangun. (1996). Spatial distribution of visual attention: Perceptual sensitivity and response latency. Perception and Psychophysics, 58, 613-627.

45. Fletcher, E.M., C.L Kussmaul and G.R. Mangun (1996). Estimation of interpolation errors in scalp topographic mapping. Electroencephalography and Clinical Neurophysiology, 98, 422-434.

46. Johannes, S., C. Kussmaul, T. Munte, and G.R. Mangun (1996). Developmental dyslexia: Passive visual stimulation provides no evidence for magnocellular processing deficits. Neuropsychologia, 34, 1123-1127.

47. Mangun, G.R., J. Hopfinger, C. Kussmaul, E. Fletcher and H.J. Heinze (1997). Covariations in PET and ERP measures of spatial selective attention in human extrastriate visual cortex. Human Brain Mapping, 5, 273-279.

48. Duezel, E., Yonelinas, A., Mangun, G.R., Heinze, H.J. and Tulving, E. (1997). Event-related brain potential correlates of two states of conscious awareness in memory. Proceedings of the National Academy of Science (USA), 94, 5973-5978.

49. Berlucchi, G., G.R. Mangun and M.S. Gazzaniga (1997). Visuospatial attention and the split-brain. News in Physiological Science, 12, 226-231.

50. Wessinger, C.M., Buonocore, M. H., Kussmaul, C.L. and Mangun G.R. (1997). Tonotopy in human auditory cortex revealed with functional magnetic resonance imaging. Human Brain Mapping, 5, 18-25.

51. Mangun, G.R. (1997). Viewing the human brain in real time: Integrating electromagnetic and hemodynamic measures. IBRO News, 25, 10-11.

52. Mangun, G.R., J. Hopfinger and H.J. Heinze (1998). Integrating electrophysiology and neuroimaging in the study of human cognition. Behavioral Research Methods, Instrumentation and Computers, 30, 118-130.

53. Heinze, H.J., H. Hinrichs, M. Scholz, and G.R. Mangun (1998). Neural mechanisms of global/local processing: A combined ERP and PET study. Journal of Cognitive Neuroscience, 10, 485-498.

54. Fernandez, G., H. Wyerts, M. Schrader-Boelsche, I. Tendolkar, H. Smid, C. Tempelman, H. Hinrichs, H. Scheich, C. Elger, G.R. Mangun and H.J. Heinze (1998). Successful verbal encoding into episodic memory engages the posterior hippocampus: A parametrically analyzed functional magnetic resonance imaging study. Journal of Neuroscience, 18: 1841-1847.

55. Mangun G.R., and L. Buck (1998). Sustained visual spatial attention produces costs and benefits in reaction time and evoked neural activity. Neuropsychologia, 36, 189-200.

56. Mangun, G.R., Buonocore, M., Girelli, M. and Jha, A. (1998). ERP and fMRI measures of visual spatial selective attention. Human Brain Mapping, 6:383-389.

57. Hopfinger, J. and G.R. Mangun (1998). Reflexive attention modulates processing of visual stimuli in human extrastriate cortex. Psychological Science, 9, 441-447.

58. Handy, T.C., Jha, A.P. and Mangun, G.R. (1999). Promoting novelty in vision: Inhibition of return modulates perceptual-level processing. Psychological Science, 10, 157-161.

59. Mangun, G.R., Jha, A.P., Hopfinger, J.B. and Handy, T.C. (2000). The Temporal Dynamics and Functional Architecture of Attentional Processes in Human Extrastriate Cortex. In M.S. Gazzaniga, (Ed.) The Cognitive Neurosciences II, MIT Press: Cambridge Mass.

60. Handy, T.C., & Mangun, G.R. (2000). Attention and spatial selection: Electrophysiological evidence for modulation by perceptual load. Perception & Psychophysics, 62, 175-186.

61. Kenemans, J.L., Baas, J.M.P., Mangun, G.R., Lijffijt, M., & Verbaten, M.N. (2000). On the processing of spatial frequencies as revealed by evoked-potential source modeling. Clinical Neurophysiology, 111, 1113-1123.

62. Hopfinger, J.B., Buonocore, M.H. and Mangun, G.R. (2000). The neural mechanisms of top-down attentional control. Nature Neuroscience, 3, 284-291. PMID: 10700262

63. Hopf, J.-M. and Mangun, G.R. (2000). Shifting visual attention in space: an electrophysiological analysis using high spatial resolution mapping. Clinical Neurophysiology, 111, 1241-1257.

64. Hopfinger, J.B., Jha, A.P. Hopf, J.-M. and Girelli, M., Mangun, G.R. (2000). Electrophysiological and Neuroimaging Studies of Voluntary and Reflexive Attention. In: Driver, J. and Monsell, S. (Eds.). Attention and Performance XVIII: The Control Over Cognitive Processes, pp. 125-154. MIT Press: Cambridge, Mass.

65. Mangun, G.R., Hopfinger, J.B., and Jha, A.P. (2000). Integrating electrophysiology and neuroimaging in the study of human brain function. In: P. Williamson, A. M. Siegel, D. W. Roberts, V. M. Thandi, & M. S. Gazzaniga (Eds.) Advances in Neurology (Vol. 84). Neocortical Epilepsies. (pp. 35-50). Philadelphia: Lippincott, Williams, & Wilkins.

66. Handy, T. C., Hopfinger, J. B., and Mangun, G. R. (2000). Attention and the imaging of cortical function. In R. Cabeza & A. Kingstone (Eds.) Handbook on Functional Neuroimaging of Cognition. Cambridge, MA: MIT Press.

67. Hopf, J.M., Luck, S.J., Girelli, M., Hagner, T., Mangun, G.R., Scheich, H., and Heinze, H. (2000). Neural sources of focused attention in visual search. Cerebral Cortex, 10(12):1233-1241.

68. Handy, T.C., Green, V., Klein, R., and Mangun, G.R. (2001). Combined expectancies: ERPs reveal the early benefits of spatial attention that are obscured by reaction time measures. Journal of Experimental Psychology: Human Perception and Performance, 27: 303-317.

69. Handy, T.C., Soltani, M. and Mangun, G.R. (2001). Perceptual load and visuocortical processing: ERP evidence for sensory-level selection. Psychological Science, 12, 213-218.

70. Hopfinger, J.B. and Mangun, G.R. (2001). Tracking the influence of reflexive attention on sensory and cognitive processing. Cognitive, Affective and Behavioral Neuroscience, 1, 56-65.

71. Mangun, G.R., Hinrichs, H., Scholz, M., Mueller-Gaertner, H.W., Herzog, H., Krause, B.J., Tellman, L., Kemna, L. and Heinze, H.J. (2001). Integrating electrophysiology and neuroimaging of spatial selective attention to simple isolated visual stimuli. Vision Research, 41:1423-1435.

72. Hopfinger, J. B., and Mangun, G.R. (2001). Electrophysiological studies of reflexive attention. In: Folk, C. & Gibson, B. (Eds.), Attraction, Distraction, and Action: Multiple Perspectives on Attentional Capture, Advances in Psychology, Vol. 133, (pp. 3-26). Elsevier: Amsterdam.

73. Hopfinger, J., Woldorff, M., Fletcher, E. and Mangun, G.R. (2001). Dissociating top-down attentional control from selective perception and action. Neuropsychologia, *39*, 1277-1291.

74. Hopfinger, J., Woldorff, M., Fletcher, E. and Mangun, G.R. (2001). Dissociating top-down attentional control from selective perception and action. In: J. Driver and R. Frackowiak (Eds.) Imaging Selective Attention in the Human Brain, (pg. 1277-1291) Elsevier: Amsterdam.

75. Baas, J.M.P, Kenemans, J.L. and Mangun, G.R. (2002). Selective attention to spatial frequency: An ERP and source localization analysis. Clinical Neurophysiology, 113, 1840-1854.

76. Song, A., Gangstead, S., Woldorff, M.G., Mangun, G.R. and McCarthy, G. (2002). Enhanced spatial localization of neuronal activation using simultaneous apparent-diffusion-coefficient and blood-oxygenation functional MRI. NeuroImage, 17, 742-750.

77. Weissman, D.H., Mangun, G. R. & Woldorff, M. G. (2002). A role for top-down attentional orienting during interference between global and local aspects of hierarchical stimuli. NeuroImage, 17, 1266-1276.

78. Weissman, D.H., Woldorff, M. G., Hazlett, C. J. & Mangun, G. R. (2002). Effects of practice on executive control investigated with fMRI. Cognitive Brain Research, 15, 47-60.

79. Giesbrecht, B. and Mangun, G.R. (2002). The neural mechanisms of attentional control. In : Karnath, H. Milner and Vallar, G. (Eds.), The cognitive and neural bases of spatial neglect, Oxford University Press: Oxford, U.K., pp. 243-257.

80. Schoenfeld, M. A., M. Woldorff, H. Scheich, H.-J.Heinze and G. R. Mangun (2003). Form-from-motion: MEG evidence for time course and processing sequence. Journal of Cognitive Neuroscience, 15:157-72.

81. Mangun, G.R. (2003). Neural mechanisms of attention. In: Zani A. & Proverbio A.M. (Eds.), The Cognitive Electrophysiology of Mind and Brain. Academic Press: New York, pp. 247-258.

82. Giesbrecht, B., Woldorff, M. G., Song, A. W., & Mangun, G. R. (2003). Neural mechanisms of top-down control during spatial and feature attention. NeuroImage, 19(3):496-512.

83. Weissman, D.H., Giesbrecht, B.G., Song, A.W., Mangun, G. R. & Woldorff, M. (2003) Conflict monitoring in the human anterior cingulate cortex during selective attention to global and local object features. Neuroimage, 19(4):1361-1368.

84. Khoe, W., Freeman, E., Woldorff, M., & Mangun, G.R. (2004). Electrophysiological correlates of lateral interactions in human visual cortex. Vision Research, 44(14):1659-1673.

85. Wilson, K.D., Woldorff, M.G., & Mangun, G.R. (2005). Control networks and hemispheric asymmetries in parietal cortex during attentional orienting in different spatial reference frames. NeuroImage, 25(3):668-683.

86. Giesbrecht, B & Mangun, G.R. (2005). Identifying the neural systems of top-down attentional control: A meta-analytic approach. In: Laurent Itti, Geraint Rees, and John Tsotsos (Eds.), Neurobiology of Attention, Elsevier:Amsterdam, pp. 63-68.

87. Giesbrecht, B., Kingstone, A., Hopfinger, J. Handy, T. and Mangun, G.R. (2006). Functional neuroimaging of attention. In R. Cabeza & A. Kingstone (Eds.) Handbook on Functional Neuroimaging of Cognition. Cambridge, MA: MIT Press, pp. 85-111.

88. Giesbrecht, B., Weissman, D., Woldorff, M. and Mangun, G.R. (2006). Pre-target activity in visual cortex predicts behavioral performance on spatial and feature attention tasks. Brain Research, 1080(1):63-72.

89. Khoe, W., Freeman, E., Woldorff, M.G., & Mangun, G.R. (2006). Interactions between attention and perceptual grouping in human visual cortex. Brain Research, 1078(1):101-111.

90. Mangun, G.R. and Fannon, S.P. (2007). Networks for attentional control and selection in spatial vision In: Mast, F. & Jäncke, L. (Eds.) Spatial Processing in Navigation, Imagery and Perception. Springer: Amsterdam. pp. 411-432.

91. Slagter, H.A., Weissman, D.H., Giesbrecht, B., Kenemans, J.L., Mangun, G.R., Kok, A. & Woldorff. M.G. (2006). Brain regions activated by endogenous preparatory set-shifting as revealed by fMRI. Cognitive, Affective and Behavioral Neuroscience, 6: 175–189

92. Dien, J., Khoe, W., and Mangun, G. R. (2007). Evaluation of PCA and ICA of simulated ERPs: Promax versus Infomax rotations. Human Brain Mapping, 28(8):742-63.

93. Mangun, G.R. and Fannon, S.P. (2007). Attention: Control in the visual cortex. Current Biology, 17(5):R170-2.

94. Slagter, H.A., Giesbrecht, B., Kok, A., Weissman, D.H., Kenemans, J.L., Woldorff, M.G. & Mangun, G.R. (2007). fMRI evidence for both generalized and specialized components of attentional control. Brain Research, 1177:90-102.

95. Fannon SP, Saron CD and Mangun GR (2008) Baseline shifts do not predict attentional modulation of target processing during feature-based visual attention. Frontiers in Human Neuroscience, 1:7. doi:10.3389/neuro.09/007.2007

96. Melis, C., Baas, J.M.P., Kenemans, J. L. and Mangun, G.R. (2008). A decomposition of electrocortical activity as a function of spatial frequency: A weighted multidimensional scaling analysis. Brain Research, 1214:116-26.

97. Mangun, G.R. (2008). Looking inward: The minds eye focuses on mental representations. Frontiers in Human Neuroscience, 2(2):133-134, doi: 10.3389/neuro.01.044.2008

98. Geng, J.J. and Mangun, G.R. (2009). The anterior intraparietal sulcus is sensitive to bottom-up attention driven by stimulus salience. Journal of Cognitive Neuroscience, 21(8): 1584-1601.

99. Ravizza, S.M., Mangun, G. R., Carter, C. S. (2009). The neural basis of attention. In: S. Wood, N. Allen, & C. Pantelis (Eds.), Handbook of Neuropsychology of Mental Illness. Cambridge University Press: Cambridge, U.K., pp. 105-116.

100. Mangun, G.R., Fannon, S.P., Geng, J.J., and Saron, C.D. (2009). Imaging brain attention systems: control and selection in vision. In: M. Filippi (Editor) FMRI Techniques and Protocols, Humana Press (p. 353-378).

101. Luck, S.J and Mangun, G.R. (2009). Attention: Section Introduction. In: Gazzaniga, M.S. (Editor) The Cognitive Neurosciences IV. MIT Press.

102. Mangun, G.R., Saron, C.D. and Walsh, B.J. (2009). Integration of conflict detection and attentional control mechanisms: Combined ERP and fMRI studies. In: Gazzaniga, M.S. (Editor) The Cognitive Neurosciences IV. MIT Press.

103. MacLean, K.A., Aichele, S.R., Bridwell, D., Mangun, G.R., Wojciulik, E. and Saron, C.D. (2009) Interactions between endogenous and exogenous attention during vigilance. Attention, Perception, & Psychophysics, 71(5):1042-1058.

104. MacLean, K., Ferrer, E., Aichele, S., Bridwell, D., Zanesco, A., Jacobs, T., King, B., Rosenberg, E., Sahdra, B., Shaver, P., Wallace, B., Mangun, G. and Saron, C. (2010). Intensive meditation training leads to improvements in perceptual discrimination and sustained attention. Psychological Science. 21(6):829-39.

105. Mazaheri, A., Coffey-Corina. S., Mangun, G.R., Bekker E.M., Berry, A.S., and Corbett, B.A. (2010). Functional disconnection of frontal cortex and visual cortex in attention deficit hyperactivity disorder. Biological Psychiatry, 67:617-623.

106. Couperus, J. and Mangun, G.R. (2010). Signal enhancement and suppression during visual-spatial selective attention. Brain Research, 1359:155-177.

107. Bengson, J.J. and Mangun, G.R. (2011). Individual working memory capacity is uniquely correlated with feature-based attention when combined with spatial attention. Attention, Perception, & Psychophysics, 73:86-102.

108. Sahdra, B., MacLean, K., Ferrer, E., Shaver, P., Rosenberg, E., Jacobs, T., Zanesco, A., King, B., Aichele, S., Bridwell, D., Mangun, G.R., Lavy, S., Wallace, B.A., Saron, C.D. (2011). Improved response inhibition during intensive meditation training predicts improvements in self-reported adaptive socio-emotional functioning. Emotion, 11(2):299-312.

109. Walsh, B.J., Buonocore, M.H., Carter, C.S. and Mangun, G.R. (2011). Integrating conflict detection and attentional control mechanisms. Journal of Cognitive Neuroscience, 23(9):2211-2221.

110. Geng, J.J. and Mangun, G.R. (2011). Right temporoparietal junction activation by a salient contextual cue facilitates target discrimination. Neuroimage, 54:594-601.

111. Munneke, J., Heslenfeld, D.J., Usrey, W.M., Theeuwes, J., Mangun, G.R. (2011) Preparatory effects of distractor suppression: Evidence from visual cortex. PLOS ONE, 6(12): e27700. PMID: 22164213

112. Bengson, J., Mangun, G.R. and Mazaheri, A. (2012). The neural markers of an imminent failure of response inhibition. NeuroImage, 59(2):1534-1539. PMID: 21889992

113. Strumpf, H., Mangun, G.R., Boehler, C.N., Stoppel, C., Schoenfeld, M.A., Heinze, H.-J., Hopf, J.-M. (2012). The role of the pulvinar in distractor processing and visual search. Human Brain Mapping, doi: 10.1002/hbm.21496. [Epub ahead of print] PMID: 22488931

114. Hopf, J.-M., Boehler, C.N., Schoenfeld, M.A., Mangun, G.R. & Heinze, H.-J. (2012). Attentional selection for locations, features and objects in vision. In: Mangun, G.R. (Ed.) The Neuroscience of Attention: Attentional Control and Selection. Oxford University Press: New York. pp. 3-29.

115. Bengson, J., Calderon, J., and Mangun, G.R. (2012). The spotlight of attention illuminates failures in feature based attention. Psychophysiology, 49(8): 1101-1108. PMID: 22775503.

116. Saggar, M., King, B.G., Zanesco, A.P., MacLean K.A., Aichele, S.R, Jacobs, T.L., Bridwell, D.A., Shaver, P.R., Rosenberg, E.L., Sahdra, B.K., Ferrer, E., Tang, A.C., Mangun, G.R., Wallace, B.A., Miikkulainen, R., Saron, C.D. (2012). Intensive Training Induces Longitudinal Changes in Meditation State-related EEG Oscillatory Activity. Frontiers in Human Neuroscience, 6(00256).

117. Bastos A.M., Usrey, W.M., Adams, R.A., Mangun, G.R., Fries, P., Friston, K.J. (2012). Canonical microcircuits for predictive coding. Neuron, 76(4):695-711. doi: 10.1016/j.neuron.2012.10.038 PMID: 23177956

118. Briggs, F., Mangun, G.R., and Usrey, W.M. (2013). Attention enhances synaptic efficacy and signal-to-noise in neural circuits. Nature, 499:476-480. PMID: 23803766

119. Swaab, T.Y., Boudewyn, M.A., Long, D.L., Luck, S.J., Kring, A.M., Ragland, J.D., Ranganath, C., Lesh, T., Niendam, T., Solomon, M., Mangun, G.R., and Carter, C.S. (2013). Spared and impaired spoken discourse processing in schizophrenia: effects of local and global language context. Journal of Neuroscience, 33(39):15578-87. PMID:24068824

120. Fannon, S. and Mangun, G.R. (2014). Effects of preparatory attention to non-spatial features in visual cortex. In Mangun, G.R., (Ed.) The Cognitive Electrophysiology of Attention: Signals of the Mind. Academic Press: New York, pp. 136-151.

121. Mazaheri, A., Fassbender, C., Coffey-Corina, S., Hartanto, T.A., Schweitzer, J.B. and Mangun, G.R. (2014). Differential top-down oscillatory EEG between ADHD subtypes and typically developing adolescents. Biological Psychiatry, 76(5):422-429. PMID:24120092

122. Bengson, J.J., Kelley, T.A., Zhang, X., Wang, J.-L., and Mangun, G.R. (2014). Spontaneous neural fluctuations predict decisions to attend. Journal of Cognitive Neuroscience, 26(11):2578-84PMID: 24738766

123. Bastos, A., Briggs, F., Alitto, H., Mangun, G.R., and Usrey, W.M. (2014). Simultaneous recordings from the primary visual cortex and lateral geniculate nucleus reveal rhythmic interactions and a cortical source for gamma-band oscillations. Journal of Neuroscience, 34(22):7639-44. PMID:24872567

124. Hong, X., Sun, J., Bengson, J.J., Mangun, G.R., & Tong, S. (2015). Normal aging selectively diminishes alpha lateralization in visual spatial attention. NeuroImage, 106:353-63. PMID: 25463457

125. Kappenman, E. S., Luck, S. J., Kring, A. M., Lesh, T. A., Mangun, G. R., Niendam, T., Ragland, J. D., Ranganath, C., Solomon, M., Swaab, T. Y., & Carter, C. S. (2016). Electrophysiological evidence for impaired control of motor output in schizophrenia. Cerebral Cortex, 26(5):1891-9. doi: 10.1093/cercor/bhu329. PMID:25618891

126. Bengson, J.J., Kelley, T. & Mangun, G.R. (2015). The neural correlates of volitional attention: a combined fMRI and ERP study. Human Brain Mapping, 36(7):2443-54. PMID:25731128

127. Boudewyn, M.A., Long, D.L., Traxler, M.J., Lesh, T.A., Dave, S., Mangun, G.R., Carter, C.S., & Swaab, T.Y. (2015). Sensitivity to referential ambiguity in discourse: The role of attention, working memory and verbal ability. Journal of Cognitive Neuroscience, 27(12):2309-23. PMID: 26401815

128. Liu, Y., Bengson, J., Huang, H., Mangun, G.R., and Ding, M. (2016). Top-down modulation of neural activity in anticipatory visual attention: Control mechanisms revealed by simultaneous EEG-fMRI. Cerebral Cortex, 26(2):517-29. PMID:25205663

129. Mangun, G.R., Liu, Y., Bengson, J.J., Fannon, S.P., DiQuattro, N.E., Geng, J.J. (2016). Neuroimaging approaches to the study of visual attention. In: M. Filippi (Editor) FMRI Techniques and Protocols (2nd Edition), Humana Press. pp. 387-417.

130. Blais, C., Hubbard, E. & Mangun, G.R. (2016). ERP evidence for implicit priming of top-down control of attention. Journal of Cognitive Neuroscience, 28(5):763-72. PMID:26765945

131. Boudewyn, M., Carter, C., Long, D.L., Traxler, M.J., Lesh, T.A., Mangun, G.R., & Swaab, T.Y. (2017). Language context processing deficits in schizophrenia: The role of attentional engagement. Neuropsychologia, 96:262-273. PMID:28126626

132. Liu, Y., Hong, X., Bengson, J.J., Kelley, T.A., Ding, M., & Mangun, G.R. (2017). Deciding where to attend: Large-scale network mechanisms underlying attention and intention revealed by graph-theoretic analysis. Neuroimage, 157:45-60. PMID:28554849

133. Bengson, J.J. & Mangun, G.R. (2018). Spatial attention and feature-based attention are differentially sensitive to individual working memory capacity and perceptual load. Visual Cognition, 1 26 (7), 545-551

134. Rajan, A., Siegal, S., Liu, Y., Bengson, J., Mangun, G.R., & Ding, M. (2019). Theta oscillations index frontal decision-making and mediate reciprocal frontal-parietal interactions in willed attention. Cerebral Cortex, 29(7):2832-2843. doi: 10.1093/cercor/bhy149. PMID:29931088

135. Noah, S.L. & Mangun, G.R. (2019). Recent evidence that attention is necessary, but not sufficient, for conscious perception. Annals of the New York Academy of Science, doi: 10.1111/nyas.14030. [Epub ahead of print] Review.PMID: 30883785

136. Bengson, J., Liu, Y., Khodayari, N., Mangun, G.R. (2020). Gating by inhibition during top-down control of willed attention. Cognitive Neuroscience, 11(1-2):60-70. doi: 10.1080/17588928.2019.1648405. Epub 2019 Aug 12. PMID:31402778

137. Noah S, Powell T, Khodayari N, Olivan D, Ding M, Mangun GR. (2020). Neural mechanisms of attentional control for objects: Decoding EEG alpha when anticipating faces, scenes, and tools. Journal of Neuroscience. 40(25):4913-4924. doi: 10.1523/JNEUROSCI.2685-19.2020. PMID: 32404346

138. Rajan, A., Meyyappan, S., Liu, Y., Samuel, I. B.H., , Nandi, B., Mangun, G.R., Ding, M. (2021). The microstructure of attentional control in the dorsal attention network. Journal of Cognitive Neuroscience. 33:6, 1-19. PMID: 34428795

139. Meyyappan, S., Rajan, A., Mangun, G.R., Ding, M. (2021). Role of inferior frontal junction (IFJ) in the control of feature versus spatial attention. Journal of Neuroscience 41(38):8065-8074. doi: 10.1523/JNEUROSCI.2883-20.2021. PMID: 34380762

140. Noah, S., Meyyappan, S., Ding, M., Mangun, G. R. (2022). Time courses of attended and ignored object representations. PsyArXiv, https://doi.org/10.31234/osf.io/2aj3n

141. Noah, S., Meyyappan, S., Ding, M., Mangun, G.R. (2022). Anticipatory attention is a stable state induced by transient control mechanisms. Frontiers in Human Neuroscience. 16:965689. doi: 10.3389/fnhum.2022.965689

142. Meyyappan, S., Rajan, A., Mangun, G.R., Ding, M. (2022). Top down control of the left visual field bias in the control of covert visual spatial attention. bioRxiv, doi: https://doi.org/10.1101/2022.02.02.478855

143. Nadra, J. G., Bengson, J. J., Morales, A. B., Mangun, G. R. (2022). The temporal dynamics of willed attention in vision. bioRxiv, 2022.2004.2011.487895, doi:10.1101/2022.04.11.487895 (2022).

144. Meyyappan, S., Rajan, A., Mangun, G.R., Ding, M. (2023). Top-down control of the left visual field bias in cued visual spatial attention. Cerebral Cortex, 33(9):5097-5107. doi: 10.1093/cercor/bhac402. PMID: 36245213

145. Noah, S., Meyyappan, S., Ding, M., Mangun, G. R. (2023). Time courses of attended and ignored object representations. Journal of Cognitive Neuroscience, 3:1-14. doi: 10.1162/jocn_a_01972. PMID: 36735619

146. Das, S., Yi, W., Ding, M. and Mangun, G.R. (2023). Optimizing cognitive neuroscience experiments for separating event- related fMRI BOLD responses in non-randomized alternating designs. Frontiers in Neuroimaging, 2:1068616. doi:10.3389/fnimg.2023.1068616

147. Nadra, J. G., Bengson, J. J., Morales, A. B., Mangun, G. R. (2023). Attention without constraint: Alpha lateralization in uncued willed attention. eNeuro, doi: 10.1523/eneuro.0258-22.2023 PMID: 37236786

148. Nadra, J. G. and Mangun, G. R. (2023) Placing willed attention in context: A review of attention and free will. Frontiers in Cognition, 2:1205618. doi: 10.3389/fcogn.2023.1205618

Editorials and Tutorials

Fox, P., Lancaster, J., Friston, K.J. and Mangun, G.R. (1997). Methods for mapping and modeling the human brain. Human Brain Mapping, 5, (4):217.

Mangun, G.R. (2020). How we pay attention. Frontiers for Young Minds. 8:29. doi:10.3389/frym.2020.00029

Published Abstracts and Presented Papers

1. Mangun, G.R., R.M. Mulkey, B. Young and G.E. Goslow, Jr. (1981). "Crosstalk in Electromyograms"; A cautionary note. American Zoologist 2: 1039.

2. Mangun, G.R., J.C. Hansen and S.A. Hillyard (1984). Investigation into possible centrifugal modulation of retinal activity during selective attention. Society for Neuroscience Abstract, 10: 114.

3. Mangun, G.R. and S.A. Hillyard (1985). Event-related brain potentials reveal processing gradients during visual-spatial selective attention in man. Society for Neuroscience Abstract, 11: 879.

4. Mangun, G.R., J.C. Hansen and S.A. Hillyard (1986). The spatial orienting of attention: Sensory facilitation or response bias? Presented at the Eighth International Conference on Event-Related Potentials of the Brain (EPIC VIII), CA.

5. Mangun, G.R. and S.A. Hillyard (1986). The spatial allocation of visual attention as indexed by event-related brain potentials. Society for Neuroscience Abstract, 12: 1448.

6. Mangun, G.R. and S.A. Hillyard (1987). The spatial gradient of visual selective attention: Relationships between event-related brain potentials and target detections. Society for Neuroscience Abstracts, 13: 850.

7. Mangun, G.R. and S.A. Hillyard (1988). Event-related brain potentials and perceptual sensitivity during visual selective attention. Psychophysiology, 25: 467.

8. Heinze, H.J., G.R. Mangun and S.A. Hillyard (1989). Relationships between perceptual accuracy and sensory-evoked ERP components during visual spatial attention. Ninth International Conference on Evoked Potentials of the Brain. Amsterdam.

9. Mangun, G.R., H.J. Heinze and S.A. Hillyard (1989). Dissociation of early attention sensitive ERP components during visual-spatial selection. Society for Neuroscience Abstracts, 15: 478.

10. Hillyard, S.A., G.R. Mangun and S.L. Luck (1990). Visual event-related potentials and attention. Electroencephalography and Clinical Neurophysiology, 75: S60.

11. Mangun, G.R., J.C. Hansen and S.A. Hillyard (1990). Visual selective attention to spatial location: Event-related brain potential and current density analysis. Society for Neuroscience Abstracts, 16: 578.

12. Mangun, K.S., G.R. Mangun and S.A. Hillyard (1990). Event-related brain potentials and scalp current density maps during color selective attention in humans. Society for Neuroscience Abstracts, 16: 578.

13. Mangun, G.R., S.J. Luck, M.S. Gazzaniga and S.A. Hillyard (1991). Electrophysiological measures of interhemispheric transfer of visual information: Studies in split-brain patients. Society for Neuroscience Abstracts, 17: 866.

14. Proverbio, A.M., G.R. Mangun, P.S. Bisiacchi and C. A. Marzi (1991). Event-related potential measures of brain activity during visual-spatial attention: evidence for hemispheric asymmetries. Cognitive Aspects of Motor Behavior, European Society for Cognitive Psychology, Ohlstadt, Germany.

15. Proverbio, A.M. and G.R. Mangun (1992). Right and hemisphere roles in attention: Electrophysiological evidence. To: Tenth International Conference on Event-Related Potentials of the Brain, Hungary, June, 1992.

16. Mangun, G.R. (1992). Orienting attention in space: Electrophysiological studies of control mechanisms. Society for Neuroscience Abstracts, 18.

17. Johannes, S., H.C. Hughes and G.R. Mangun (1992). Attention to locations in space: The neurophysiology of early selection. Society for Neuroscience Abstracts, 18.

18. Kussmaul, C.L., M.J. Tramo and G.R. Mangun (1992). Investigations of harmonic relationships on auditory ERPs to successive pure tones. Psychophysiology, 29: S47.

19. Proverbio, A.M., A. Zani and G.R. Mangun (1993). Electrophysiological substrates of visual selective attention to spatial frequency. Psychonomic Society Abstracts, 173.

20. Friedman-Hill, S.R., G.R. Mangun (1993). Selective attention to location and color: electrophysiological evidence for separate neural processes. Society for Neuroscience Abstracts, 19: 563

21. Kingstone, A., J.T. Enns, G.R. Mangun and M.S. Gazzaniga (1993). Smart search: Lateralized control of strategic processes in the human split-brain. Society for Neuroscience Abstracts, 19: 564.

22. Mangun, G.R., H.J. Heinze, W. Burchert, H. Hinrichs, T.F. Münte, M. Scholz, A. Gös, H. Hundeshagen, M.S. Gazzaniga and S.A. Hillyard (1993) Combined PET and ERP studies of spatial selective attention in humans. Society for Neuroscience Abstracts. 19: 1285.

23. Friedman-Hill, S.R., and G.R. Mangun (1993). Selective attention to location and color: electrophysiological evidence for separate neural processes. Society for Neuroscience Abstracts, 19.

24. G.R. Mangun, M. Sams, R. J. Ilmoniemi, and G.V. Simpson (1994). Combined MEG and ERP measures of visual spatial selective attention in humans. Society for Neuroscience Abstracts, 20.

25. Jha, A.P., A.F. Kingstone, and GR. Mangun (1994). Spatial selective attention in patients with parietal and temporal-parietal lesions. Society for Neuroscience Abstracts, 20.

26. Mangun, G.R., T.C. Handy, and A. Kingstone (1994).The effects of visual attention on the spatial distribution of perceptual sensitivity and response speed. Cognitive Neuroscience Society, 1994.

27. Kiehl, K., G.R. Mangun, and R.D. Hare (1995). Hemispheric processing of affective language: An ERP study. Cognitive Neuroscience Society.

28. Proverbio, A.M. A. Zani, G.R. Mangun and M.S. Gazzaniga (1995). VEP evidence of hemispheric asymmetries for spatial frequency processing in a split-brain patient. Cognitive Neuroscience Society.

29. Handy, T.C., A. Jha, D. Davies, and G.R. Mangun (1995). Early attentional selection and inhibition of return. Cognitive Neuroscience Society,.

30. Wessinger, C.M, M. Buonocore, C.L. Kussmaul, G.R. Mangun, A. Jones, and M.S. Gazzaniga (1995). Functional magnetic resonance imaging of auditory cortex using pulsed tones. Society for Neuroscience Abstracts, 21.

31. Hopfinger, J. and G.R. Mangun (1995). Electrophysiological studies of automatic attentional cuing. Society for Neuroscience, 21.

32. Handy, T.C., A. Jha, A. Kingstone, G.R. Mangun (1995). Attentional hemispheric asymmetries in a chronometric analysis of inhibition of return. Society for Neuroscience, 21.

33. Jha, A., G.R. Mangun (1996). The effects of EPI noise on auditory sensory processing: An ERP study. Neuroimage 3:S310.

34. Mangun, G.R., Hopfinger, J.B., Kussmaul, C.L., Fletcher, E. and Heinze, H.J. (1996). PET and ERP studies of complex form analysis and luminance detection during spatial selective attention. Society for Neuroscience Abstracts, 22: 1198.

35. Hopfinger, J., E. Duezel, A.P. Yonelinas, E. Tulving and G.R. Mangun (1996). Event-related potentials to false memory. Society for Neuroscience Abstracts, 22: 1112.

36. Kussmaul, C.L., C.M. Wessinger, M.H. Buonocore and G.R. Mangun (1996). Tonotopic organization of auditory cortex demonstrated with BOLD functional magnetic resonance imaging. Society for Neuroscience Abstracts, 22: 1070.

37. Mangun, G.R. (1996) Combined PET and ERP measures of visual spatial attention during form discrimination and luminance detection. Psychophysiology, Vol 33, Suppl. 1, p. S6.

38. Mangun, G.R., J.B. Hopfinger, M. Girelli, A.P. Jha, M. Buonocore. (1997). Spatiotemporal analysis of visual processing during attention: Integration of PET and ERPs, and comparison to FMRI. Neuroimage, 4.

39. Hopfinger, J., C. Kussmaul, E. Fletcher, H.J. Heinze and G.R. Mangun (1997). Combined PET and ERP analysis of spatial selective attention during discrimination and detection tasks. Cognitive Neuroscience Society. vol 4., (p. 125).

40. Girelli, M., A. Jha, M. Buonocore and G.R. Mangun (1997). FMRI and ERP studies of visual spatial selective attention in humans. Cognitive Neuroscience Society. vol 4., (p. 125).

41. Mangun, G.R., and T. C. Handy (1997). Early attentional selection: Electrophysiological evidence for mediation by perceptual load. Cognitive Neuroscience Society. vol 4., (p. 123).

42. Jha, A. and G.R. Mangun (1997). Does spatial working memory interact with performance on a spatial attention task. Cognitive Neuroscience Society. vol 4., (p. 122).

43. Handy, T. and G.R. Mangun (1997). Visual attention: Electrophysiological correlates of a dynamic center-surround organization. Cognitive Neuroscience Society. vol 4., (p. 121).

44. Hopf, J.M and G.R. Mangun (1997). Preparatory electrocortical processes for redirecting visual attention in space. Cognitive Neuroscience Society. vol 4., (p. 120).

45. Mangun, G.R., A.M. Dale, J.S. George and A.C. Nobre (1997). Symposium: Mapping Cognition in Space and Time: Integration of electromagnetic recording and functional neuroimaging in human neuroscience. Society for Neuroscience Abstract, 23, 1.

46. Jha, A.P., M. Buonocore, M. Girelli and G.R. Mangun. (1997). fMRI and ERP studies of the organization of spatial selective attention in human extrastriate visual cortex. Society for Neuroscience Abstract, 23, 301.

47. Girelli, M., M. Buonocore, A.P. Jha, S.J. Luck and G.R. Mangun. (1997). Combined ERP and fMRI recordings in visual search: Evidence for a filtering process in extrastriate visual cortex. Society for Neuroscience Abstract, 23, 301.

48. Khoe, W., A.P. Jha, G.R. Mangun. (1998). The aging brain: Is early visual attentional selection compromised? Journal of Cognitive Neuroscience, suppl. pg. 66.

49. Hopfinger, J., G.R. Mangun. (1998). Neural correlates of reflexive attentional orienting. Journal of Cognitive Neuroscience, suppl. pg. 76.

50. Martin, N., G.R. Mangun. (1998). Effects of prenatal drug exposure on event-related potentials (ERPs) in 5 to 7 year old children. Journal of Cognitive Neuroscience, suppl. pg. 98.

51. Green, V., T.C. Handy, R. Klein, G.R. Mangun. (1998). The neural locus of attentional spotlight masking. Journal of Cognitive Neuroscience, suppl. pg. 135.

52. Jha, A.P., and Mangun, G.R. (1998) The Neural Basis of Rehearsal in Spatial Working Memory. Society for Neuroscience Abstracts Vol. 24, Los Angeles, CA.

53. Hopfinger, J. B., Buonocore, M. H., & Mangun, G. R. (1999). An event-related fMRI study of attentional orienting. Cognitive Neuroscience Society, Washington, DC.

54. Hopfinger, J. B., Buonocore, M. H., & Mangun, G. R. (1999). Attentional control systems separated from selective attention effects using event-related fMRI. Society for Neuroscience Abstracts, 25, 287.

55. Giesbrecht, B., Woldorff, M.G., Fichtenholtz, H. M., and Mangun, G.R. (2000). Isolating the Neural Mechanisms of Spatial and Nonspatial Attentional Control. Society for Neuroscience Abstracts, 26.

56. Mangun, G. R., Hopfinger, J. B., Woldorff. M. G., & Geisbrecht, B. (2000). Isolating the Neural Mechanisms of Spatial and Nonspatial Attentional Control. Neuroimage, 9, s66. (6th Annual Meeting of the Organization for Human Brain Mapping, San Antonio, TX.)

57. Hopfinger, J. B., Maxwell, J., & Mangun, G. R. (2000). Reflexive attention captured by the irrelevant appearance or disappearance of visual objects modulates early visual processing. Cognitive Neuroscience Society, San Francisco, CA.

58. Giesbrecht, B., M. G. Woldorff, H. M. Fichtenholtz, & G. R. Mangun (2001). Dissociating the neural control systems of spatial and nonspatial visual selective attention. Cognitive Neuroscience Society, New York.

59. Weissman, D.H., Woldorff, M.G., & Mangun, G.R. (2001). Neural correlates of voluntary orienting for global versus local processing. Cognitive Neuroscience Society, New York.

60. Martin, N.A., R. L. Hansen, & G. R. Mangun (2001). Novelty processing from infancy to school age in children exposed prenatally to drugs. Cognitive Neuroscience Society, New York.

61. Woldorff, M.G., H.M. Fichtenholtz, A.W. Song, & G.R. Mangun (2001). Separation of cue- and target-related processing in a fast-rate visual spatial attention cueing paradigm. Cognitive Neuroscience Society, New York.

62. Dien, J., M. H. Buonocore, J. Hopfinger, & G. R. Mangun (2001). Combined functional magnetic resonance imaging (fMRI) and event-related potential (ERP) analysis of selective and divided attention to color, shape, and speed. Neuroimage/OHBM.

63. Woldorff, M.G., H.M. Fichtenholtz, A.W. Song, & G.R. Mangun (2001). Cue- and target-related processing in a fast-rate cued visual spatial attention paradigm. Neuroimage/OHBM.

64. Khoe, W. & Mangun, G.R. (2001). Event Related Potential Study of Attentional Processing in Discrimination Tasks with Distracters. Poster presented at Annual Meeting for the Society for Cognitive Neuroscience, NY, NY.

65. Wilson, K. & Mangun, G.R. (2001). Reference Frame Effects in the Top-Down Control of Visual Attention: An Event-Related fMRI Investigation. Society for Neuroscience Abstracts, Vol. 26.

66. Wilson, K.D. and Mangun, G.R. (2001). Reference frame effects in the top-down control of visual attention: an event-related fMRI investigation. Cognitive Neuroscience Society Abstracts, Vol. 8, p. 115.

67. Kenemans, J. L., Grent-'t Jong, T., Giesbrecht, B., Weissman, D. H., Woldorff, M. G., & Mangun, G. R. (2001). Control of Visual Attention. Seventh National Meeting of EEG-MEG Source Characterization.

68. Weissman, D. H., Woldorff, M. G., & Mangun (2001). Functional role of parietal areas activated by interference between global and local aspects of hierarchical stimuli. Society for Neuroscience.Abstract, Vol 26.

69. Woldorff, M. G., Fichtenholtz, H. M., Tran, T., Weissman, D. H., Song, A. W., & Mangun, G. R. (2001). Separation of cue- and target-related processing in a fast-rate visual spatial attention cueing paradigm. Cognitive Neuroscience Society, New York.

70. Kenemans, J. L., Grent-ít Jong, T. L., Giesbrecht, B., Weissman, D., Woldorff, M. G. & Mangun, G. R. (2002). A sequence of brain-activity patterns in the control of visual attention. Society for Physiological Research.

71. Weissman, D.H., Woldorff, M. G., Mangun, G. R. (2002). Effects of practice on executive control investigated with fMRI. Cognitive Neuroscience Society, San Francisco.

72. Wilson, K.D. and Mangun, G.R. (2002). Orienting visual attention in different spatial frames of reference: a rapid, event-related fMRI investigation. Society for Neuroscience Abstracts, Vol. 27, Orlando, FL.

73. Giesbrecht, B., Woldorff, M. G., & Mangun, G. R. (2002). Cortical consequences of top-down control during spatial and nonspatial attention. Society for Neuroscience Abstracts, Vol 27, Orlando, FL.

74. Weissman, D.H., Woldorff, M. G., Song, A., Mangun, G. R. (2002). Both perceptual/semantic conflict and response conflict between target and distracter stimuli activate midline frontal regions. Society for Neuroscience Abstracts, Vol 27, Orlando, FL.

75. Giesbrecht, B., Grent-'t Jong, T., Kenemans, J. L., Weissman, D. H., Woldorff, M. G., & Mangun, G. R. (2002). Spatial and temporal dynamics of nonspatial attentional control: A combined fMRI and ERP study. Presented at the 8th Annual meeting of the Organization for Human Brain Mapping, Sendai, Japan.

76. Chau, W. K. W., Giesbrecht, B., Mangun, G. R., & McIntosh, A. R. (2002). Event-related analysis of fMRI data using partial least squares. Presented at the 10th Annual meeting of the International Society for Magnetic Resonance Imaging in Medicine, Honolulu, HI.

77. Giesbrecht, B., Woldorff, M. G., & Mangun, G. R. (2002). Cortical networks and consequences of top-down attentional control. Presented at the Army Research Office Annual Meeting, Cashiers, NC.

78. Khoe, W., Freeman, E., Walczak, A., Chang, T., Woldorff, M.G. & Mangun, G.R. (2003). Probing Lateral Interactions in Early Visual Areas: An Electrophysiological Study of Stimulus Context. Poster presented at Annual Meeting of the Cognitive Neuroscience Society, NY.

79. Slagter, H., Weissman, D. H., Giesbrecht, B., Kenemans, J. L., Mangun, G. R., Kok, A., Woldorff, M. G. (2003, November). Spatial versus nonspatial preparatory attention: A combined fMRI and ERP study. Society for Neuroscience Abstracts, Vol. 28, New Orleans, LA.

80. Fannon, S. P. & Mangun, G. R. (2004). "Are attentional templates and mental images equivalent? Comparing the effects of feature-based attention and mental imagery on target detection." Cognitive Neuroscience Society Annual Meeting.

81. KD Wilson, JP Bermudez, MG Woldorff, & GR Mangun (2004). Psychophysical Evidence for Distinct Object-Based Effects During Top-Down and Bottom-Up Shifts of Visual Spatial Attention. Society for Neuroscience Abstracts, Vol. 29, San Diego, CA.

82. Slagter, H., Giesbrecht, B., Kok, A., Weissman, D. H., Kenemans, J. L., Mangun, G. R., Woldorff, M. G. (2005, April). Spatio-temporal dynamics of brain mechanisms in attentional control: A combined ERP and fMRI study. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, New York, NY.

83. Fannon, S. P. & Mangun, G. R. (2005). "Attention-related baseline shifts do not determine the amplitude of subsequent target-evoked responses" American Psychological Society Annual Meeting, Los Angeles, CA.

84. Walsh B.J., Fannon S.P., Giesbrecht B., Mangun G.R. (2005). Dissecting attentional control systems for spatial attention. American Psychological Society Annual Meeting, Los Angeles, CA.

85. Walsh B.J., Fannon S.P., Heipertz D., Teng S., Giesbrecht B., Mangun G.R. (2005). Combining functional MRI and event-related potentials to dissect attentional control systems. Society for Neuroscience Abstracts, Vol. 30, Washington, D.C.

86. Walsh B.J., Fannon S.P., Heipertz D., Teng S., Giesbrecht B., Heldmann, M., Muente, T.F. , and Mangun G.R. (2006). Time Course and Functional Anatomy of Attention Control. Cognitive Neuroscience Society Annual Meeting, New York, N.Y.

87. E.M. Bekker, S. Teng, D.M. Horton, G.R. Mangun (2006). Neural correlates of cross-modality attentional switching. Cognitive Neuroscience Society Annual Meeting, New York, N.Y.

88. Fannon, S. and Mangun, G.R. (2006). Role of Anterior IPS in Directing Attention to Visual Features and Dimensions. Cognitive Neuroscience Society Annual Meeting, New York, N.Y.

89. MacLean, K., Saron, C., Aichele, S., Bridwell, D., Jacobs, T., Zanesco, A., Mangun, G.R. (2008). Improvements in perceptual threshold with intensive attention training through concentration meditation. Journal of Cognitive Neuroscience Suppl.

90. Fannon, S. and Mangun, G.R. (2008). The effects of irrelevant pre-target stimuli on feature-specific baseline shifts in selective Attention. Journal of Cognitive Neuroscience Suppl..

91. K.A. MacLean, S. R. Aichele, D.A. Bridwell, T.L. Jacobs, A.P. Zanesco, B.G. King, E. Ferrer, G.R. Mangun, and C.D. Saron (2008). Intensive attention training in concentration meditation leads to improvements in visual sustained attention and response inhibition. Washington, D.C.: Society for Neuroscience Abstracts.

92. MacLean, K. A, Aichele, S., Bridwell, D., Jacobs, T.L., Zanesco, A., King, B., Mangun, G. R. & Saron, C. D. (2008). Intensive attention training in concentration meditation leads to improvements in visual sustained attention and response inhibition. Program No. 871.1. 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online.

93. MacLean, K. A., Saron, C. D., Aichele, S., Bridwell, D., Jacobs, T. L., Zanesco, A., & Mangun, G. R. (2008) Improvements in perceptual threshold with intensive attention training through concentration meditation. Presented at the 2008 meeting of the Society for Cognitive Neuroscience annual meeting, San Francisco, CA. Online.

94. Fassbender, C, Coffey-Corina, S., Mizuiri, D.S., Dixon, J.F., Blake, C., Bhangoo, R., Carter, C.S., Mangun, G.R., and Schweitzer, J.B (2009). Impaired Response Preparation in ADHD. Human Brain Mapping 2009, San Francisco, U.S.A. June 18-23 2009

95. Bengson, J.B. and Mangun, G.R. (2009) Individual Variability in working memory capacity predicts success in attentional related processing of visual stimuli. Cognitive Neuroscience Society, San Francisco, CA, April 2009.

96. Saggar, M., Aichele, S. R., Jacobs, T. L., Zanesco, A. P., Bridwell, D. A., Maclean, K. A., King, B. G., Sahdra, B. K., Rosenberg, E. L., Shaver, P. R., Ferrer, E., Tang, A. C., Wallace, B. A., Mangun, G. R., Miikkulainen, R., & Saron, C. D. (2009). Longitudinal changes in brain activity associated with intensive meditation training. Program No. 871.2. *2009 Neuroscience Meeting Planner*. Chicago, IL: Society for Neuroscience, 2009. Online.

97. MacLean, K. A., Aichele, S. R., Bridwell, D. A., Jacobs, T. L., Zanesco, A. P., King, B. G., Saggar, M., Mazaheri, A., Ferrer, E., Rosenberg, E. L., Sahdra, B. K., Shaver, P.R., Wallace, B. A., Mangun G. R., & Saron, C. D. (2009). Effects of intensive meditation training on sustained attention: Changes in visual event-related potentials, ongoing EEG and behavioral performance. Program No. 871.3. *2009 Neuroscience Meeting Planner*. Chicago, IL: Society for Neuroscience, 2009. Online.

98. Risa Sawaki, Sharon Coffey Corina, Jun'ichi Katayama, Blythe A. Corbett, & George R. Mangun (2009) Impaired early visual processing is associated with high distractibility in children with ADHD Cognitive Neuroscience Society, San Francisco, CA, April 2009.

99. Megan A. Boudewyn, Tamara Y. Swaab, Ann Kring, Steven Luck, George R. Mangun, J. Daniel Ragland, Charan Ranganath, Cameron S. Carter (2010). Online processing of discourse-level congruence and Lexical

associative priming in schizophrenia: an ERP study. Cognitive Neuroscience Society Annual Meeting, Montreal.

100. Saggar, M., Aichele, S.R, Jacobs, T.L., Zanesco, A. P., Bridwell, D. A., MacLean, K. A., King, B. G., Sahdra, B. K., Rosenberg, E. L, Shaver, P. R., Ferrer, E.,Wallace, B. A., Mangun, G. R., Saron, C. D. & Miikkulainen, R. A computational approach to understanding the longitudinal changes in cortical activity associated with intensive meditation training. Presented at Computational Neuroscience annual meeting, San Antonio, TX. July 2010.

101. Sahdra, B.K., MacLean, K. A., Ferrer, E., Shaver, P. R., Rosenberge, E. L., Jacobs, T. L., Zanesco, A. P., King, B. G., Aichele, S. R., Bridwell, D. A., Mangun, G. R., Lavy, S., Wallace, B. A., & Saron, C. D. Response Inhibition Enhanced By Meditation Training Predicts Improved Adaptive Functioning To be presented at the 2010 meeting of the American Psychological Association, San Diego, CA. August 2010.

102. Saggar, M., Aichele, S. R., Jacobs, T. L., Zanesco, A. P., Bridwell, D. A., MacLean, K. A., King, B. G., Sahdra, B. K., Rosenberg, E. L., Shaver, P. R., Ferrer, E., Tang, A. C., Wallace, B. A., Mangun, G. R., Miikkulainen R., & Saron, C. D. Training attention: longitudinal changes in cortical activity associated with intensive meditation. 2010 SPIE Human Vision and Electronic Imaging Conference Symposium Presentation. Online.

103. Ziemba CM, Mangun GR & Usrey WM (2010). The influence of pulvinar activity on corticocortical communication. Frontiers in Neuroscience Conference Abstract: Computational and Systems Neuroscience (COSYNE). doi: 10.3389/conf.fnins.2010.03.00333

104. Mazaheri, A., Bengson, J, & Mangun, G.R. (2010). The neural correlates of an imminent failure in response inhibition. Society for Neuroscience Abstracts. San Diego, CA.

105. C. Fassbender, S. Coffey-Corina, J.F. Dixon, D, Mizuiri, T-M. Yip, K.J. Rutledge, C.S. Carter, G.R. Mangun & J. Schweitzer (2010). ADHD Symptoms Affect Neural Correlates of Performance Preparation and Evaluation. Society for Neuroscience Abstracts. San Diego, CA

106. Swaab, T.Y., Boudewyn, M.A., Kring, A.M., Luck, S., Mangun, G.R., Ragland, J.D., Ranganath, C., Carter, C.S. Electrophysiological evidence for impaired dis-course processing but spared associative priming in schizophrenia. Society for the Neurobiology of Language Conference, San Diego.

107. Briggs, F., Mangun, G.R., & Usrey, W.M. (2011). Visual attention enhances the synaptic efficacy of thalamocortical communication. Society for Neuroscience Abstracts. Program No. 221.01, *2011 Neuroscience Meeting Planner*. Washington, D.C.: Society for Neuroscience, Online.

108. Blais. C., Hubbard, E., & Mangun, G.R. (2011) An ERP investigation of context specific cognitive control.. Society for Neuroscience Abstracts. Program No. 194.22, *2011 Neuroscience Meeting Planner*. Washington, D.C.:. Society for Neuroscience, Online.

109. Kelley, T.A. & Mangun, G.R. (2011). Electrophysiological correlates of improved distractor filtering. OPAM 19th Annual Conference, Seattle Washington, USA.

110. Mangun, G.R., Bengson, J.J. & Mazaheri, A. (2012). Simultaneous EEG and fMRI measures of top-down spatial attention. Program No. 492.25. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012. Online.

111. Bengson, JJ, Kelley, T.A., Mangun G.R. (2012). The neural dynamics of willed attention: A combined ERP and fMRI study. Program No. 728.11. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012. Online.

112. Kelley, T., Mangun, G.R. (2013). Practice improves late-stage distractor filtering: a combined EEG-fMRI study. Cognitive Neuroscience Society, San Francisco, CA.

113. Bengson, J.J., Kelley, T., Mangun, G.R. (2013). The neural dynamics of willed attention. Cognitive Neuroscience Society, San Francisco, CA.

114. Liu, Y., Bengson, J.J., Huang, H., Mangun, G.R., Ding, M. (2013). Brain Structures Modulating Alpha Oscillations in Anticipatory Visual Attention: A Simultaneous fMRI-EEG Study. Society for Neuroscience Annual Meeting, San Diego, CA.

115. Hong, X., J. Sun, J.J. Bengson, G. R. Mangun, S. Tong (2014). Age-Related Changes in Alpha Lateralization during Top-Down Control of Visual Spatial Attention. Cognitive Neuroscience Society, Boston, MA.

116. Boudewyn, M.A., Dave, S., Traxler, M.J., Long, D.L., Mangun, G.R., Carter, C.S. & Swaab, T.Y. (2014). The influence of referential context on the processing of ambigu-ous syntactic structures in schizophrenia: evidence from event-related potentials. Cognitive Neuroscience Society Meeting, Boston. April 5- 8.

117. Liu Y, Hong X, Bengson J, Ding M, Mangun GR (2014). Dorsal anterior cingulate cortex mediates decisions about where to attend: evidence from graph-theoretic analysis of network connectivity. Poster presentation at the Society for Neuroscience meeting, Washington DC, 647.18.

118. Bastos, A., Esmeraldo, H.B.S., Mangun, G.R., Usrey, W.M. (2014). Modeling the emergence of gamma band oscillations in the visual thalamocortical pathway. 2014 Neuroscience Meeting Planner. Washington, D.C.: Society for Neuroscience, 2014. Online.

119. Royston, A., Napan, J., Anderson, K., Haberman, A., Luck, S.J., Hillyard, S.A., Usrey, W.M., Mangun, G.R. (2015). ERP evidence of reafferent priming of V1 feedforward circuits by spatial attention during dynamic vision. Society for Neuroscience, Chicago, IL.

120. Rajan A, Liu Y, Huang H, Bengson J, Mangun GR, Ding M (2015). Deciding where to attend: increased frontal theta/delta oscillations and their neuronal substrate. Poster presentation at the Society for Neuroscience meeting, Chicago, IL.

121. Liu Y, Chen CJ, Bengson J, Hong X, Wang JL, Ding M, Mangun GR (2015). Neural substrates of voluntary selection in top-down selective attention. Poster presentation at the 2015 Cognitive Neuroscience Society Annual Meeting, San Francisco.

122. Boudewyn, M.A., Long, D.L., Traxler, M.J., Lesh, T., Mangun, G.R., Carter, C.S. & Swaab, T.Y. (2015). Referential context processing deficits in schizophrenia: evidence from electrophysiology. Cognitive Neuroscience Society Meeting, San Francis-co. March 28-31

123. Liu, Y., Alitto, H.J., Royston, A., Mangun, G.R., Usrey, W.M. Feature-based attention modulates correlated BOLD activity in the visual cortex. Poster presented at Society for Neuroscience, Chicago, IL, October 17, 2015.

124. Royston A., Napan, J., Mangun, G.R. Ongoing Dynamic Stimuli Facilitate Attention Effects in V1. Poster presented at AAAS – PD, San Francisco, CA, June 16, 2015.

125. Napan, J., Haberman, A., Royston, A., Mangun, G.R. Behavioral Effects Related to Stimulus Dynamicity. Poster presented at AAAS – PD, San Francisco, CA, June 16, 2015.

126. Napan, J.*, Royston, A., Anderson, K., Mangun, G.R. Behavioral Effects in an Unforced-Choice and Adaptively Staircased Detection Task. Poster presented at AAAS-PD, San Diego, CA, June 15, 2016.

127. Bengson, J.J., Liu, Y., Morales, A., Khodayari, N. & Mangun, G.R. & Ding, M. (October, 2015). Deciding where to attend: Increased frontal theta/delta oscillations and their neuroanatomical substrate. Society for Neuroscience, Chicago, Illinois:

128. Royston, A., Napan, J., Anderson, K., Haberman, A., Luck, S.J., Hillyard, S.A., Usrey, W.M., Mangun, G.R. Attention to ongoing stimuli modulates feedforward processing in human primary visual cortex. Poster presented at CNS, New York, NY, April 4, 2016.

129. Meyyappan, S., A. Rajan, Y. Liu, J. Bengson, R. Sitaram, G.R. Mangun , M. Ding (2016). Decoding Attentional States using Multi-Voxel Pattern Analysis. Poster presentation at the Society for Neuroscience, San Diego, CA.

130. Rajan, A., S. Meyyappan, H. Walker, Y. Liu, J. Bengson, G.R. Mangun, M. Ding (2016). Control of Spatial vs Feature Attention: A MVPA study. Society for Neuroscience, San Diego, CA.

131. Royston, A., J. Napan, K. Anderson, S. Luck, S.A. Hillyard, W.M. Usrey, & G.R. Mangun (2016). ERP evidence of an attention effect in human primary visual cortex. Federation of European Neuroscience Societies, Copenhagen, Denmark.

132. Bengson, J., X. Zhang & G.R. Mangun (2017). Dynamic coupling between the anterior cingulate and occipital alpha power during willed attention. Cognitive Neuroscience Society Meeting, San Francisco, CA.

133. Ding, M., Y. Liu, J. Bengson, H. Huang, G.R. Mangun (2017). Brain Structures Modulating Alpha Oscillations in Anticipatory Spatial Visual Attention: A Simultaneous EEG-fMRI Study. Cognitive Neuroscience Society Meeting, San Francisco, CA.

134. Meyyappan, S. A. Rajan, H. Walker, Y. Liu, G. R. Mangun, M. Ding, "Cue-evoked pupillary response reveals a left visual field bias in covert spatial visual attention. Society for Neuroscience, Vol. 43, Prog. No. 805.11, 2017

149. Meyyappan, S., A. Rajan, H. Walker, Y. Liu, G. R. Mangun, M. Ding (2018). A frontal network controlling feature attention revealed by combining functional connectivity and machine learning," Society for Neuroscience, Vol. 44, Prog. No. 792.05.

150. Meyyappan, S., A. Rajan, J. J. Bengson, G. R. Mangun, M. Ding, (2019). Decoding visual spatial attention control. Society for Neuroscience, Vol. 45, Prog. No. 700.02.

151. Meyyappan, S., A. Rajan, H. Walker, Y. Liu, G.R. Mangun, M. Ding (2019). Cue-evoked pupillary response reveals a left visual field bias in covert spatial visual attention. Vision Sciences Society, 63.455, St. Pete's Beach, Florida.

152. Noah, S., T. Powell, N. Khodayari, D. Olivan, M. Ding, G.R. Mangun (2019). Object-based Attentional Modulation of EEG Alpha is Related to Task Difficulty," Vision Sciences Society, 23.453, St. Pete's Beach, Florida.

153. Kim, S., S. Meyyappan, J.J. Bengson, G.R. Mangun, M. Ding. (2020). Patterns of pre-cue alpha power predict the decision about where to attend in willed attention. Cognitive Neuroscience Society Meeting, Boston, MA (Virtual).

154. Meyyappan, S., A. Rajan, S. Kim, J.J. Bengson, G.R. Mangun, M. Ding. (2020). Decoding visual spatial attention control. Cognitive Neuroscience Society Meeting, Boston, MA (Virtual).

155. Yang, Q., S. Meyyappan, J.J. Bengson, G.R. Mangun, M. Ding. (2020). Frontoparietal Control of Willed Attention. Cognitive Neuroscience Society Meeting, Boston, MA (Virtual).

156. Das, S., M. Ding, G.R. Mangun. (2020). Optimal Parameters for Alternating Event-related fMRI Designs. Cognitive Neuroscience Society Meeting, Boston, MA (Virtual).

157. Noah, S., T. Powell, N. Khodayari, D. Olivan, M. Ding, G.R. Mangun. (2020). Neural Mechanisms of Attention to Objects. Cognitive Neuroscience Society Meeting, Boston, MA (Virtual).

158. Nadra, J., A. Mittal, J. Bengson & G. R. Mangun (2020). Mechanisms of overt attention in visual search: Eye tracking, hemifield bias and willed attention. Cognitive Neuroscience Society Meeting, Boston, MA (Virtual).

159. Das, S., Mangun, G.R., & Ding, M. (2021). Deconvolution and Analysis of Responses in Alternating Event Related fMRI Designs. Society for Neuroscience Global Connectome Meeting, January 2021 (Virtual).

160. Nadra, J., Bengson, J., Ding, M., & Mangun, G. (2021). Tracking the Onset of Willed Attention: EEG, Alpha Oscillations & Machine Learning. Association for Psychological Science Annual Meeting, May 2021 (Virtual).

161. Das S., Mangun G. R., Ding M. (2021). Neural Mechanisms of Attentional Control Modulates Task Performance in Deep Neural Networks. Society for Neuroscience, Nov 8-11.

162. Seidl, S., Ranganath, C., Mangun, G.R., Usrey, W.M., Antzoulatos, E.G. (2021). Differential Effects of Unilateral and Bilateral tDCS on Scalp EEG Power Spectra. Society for Neuroscience Abstracts.

163. Das S., Mangun G. R., Ding M. (2021). Feature-based Attention Enhances Task Performance in a Deep Neural Network Model of Ventral Visual System. Cognitive Neuroscience Society - Annual Meeting. 13- 16 March.

164. Krieger, O., Astleford, K., Olivan, D., Chamberlain, M., Ding, M., Mangun, G. (2021). Anticipation and attention to the spatial scale of visual stimuli. Cognitive Neuroscience Society Annual Meeting, San Francisco (virtual).

165. Q. Yang, S. Meyyappan, J. J. Bengson, G. R. Mangun, M. Ding (2021). Frontoparietal Control of Willed Attention. Society for Neuroscience Abstracts, Vol. 47, Prog. No. P769.07.

166. Nadra, J., Bengson, J., Ding, M., Mangun, G. (2022). Neural Mechanisms of Willed Attention in Overt Visual Search. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

167. Holcomb, L. A., Astleford, K., Bell, G. K., Mangun, G. R. (2022). The relationship between covert spatial attention and microsaccades. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

168. Yi, W., Das, S., Ding, M., Mangun, G.R. (2023). fMRI Deconvolution Toolbox: Separating Overlapping Responses in Non-Randomized Alternating Event-Related fMRI Designs in Cognitive Neuroscience. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

169. Statema, T. M., Das, S., Meyyappan, S., Ding, M., Mangun, G.R. (2023). Neural Mechanisms of Cross-Modal Selective Attention for Auditory and Visual Stimuli. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

170. Das, S., Meyyappan, S., Ding, M., Mangun, G.R. (2023). Decoding Neural Patterns Associated with Cross-Modal Attention to Auditory and Visual Stimuli. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

171. Nadra, J., Ding, M., Mangun, G. (2023). The Neural Mechanisms of Color Willed Attention. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

172. Holcomb, L. A., Bell, G. K., Cohen, A. R., Astleford, K., Mangun, G. R. (2023). The effects of covert spatial attention and working memory capacity on early visually-evoked potentials. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

PRESENTATIONS

Honorary Lectures

Award Lecture (Distinguished Early Career Contributions Award), "Dissecting the Functional Architecture of Brain Attention Systems Using Event-Related Potentials", Society for Psychophysiological Research, October, 1993, Germany.

F.C. Donders Lecture, "The Functional Architecture of Brain Attention Systems", Max-Planck Institute for Psycholinguistics, Nijmegen, Holland, 1994.

Neuropsychology Special Lecture, "Probing Attention and Awareness with Electromagnetic and Functional Neuroimaging", 8th World Congress of Psychophysiology, Tampere, Finland, June, 1996.

Award Lecture (APA Distinguished Scientist Lecturer), “Attention and Awareness: From Cognitive Theory to Cortical Mechanisms”, Eastern Psychological Association Annual Meeting, Providence, R.I., 1999.

Plenary Lecture, “Functional Architecture of Visual Attention”, Presented at the opening of the F.C. Donders Centre for Cognitive Neuroimaging, Nijmegen, The Netherlands, September, 2002.

Plenary Lecture, “The Mind's Eye: Neurobiology of Visual Attention”, Federation of European Psychophysiological Societies, Bordeaux, France, September, 2003.

Keynote Speaker, “Biology of the Mind: Our Greatest Challenge”, Annual Phi Sigma Initiation Ceremony, University of California, Davis Chapter, May, 2004.

Keynote Speaker, ADMAN Annual Administrative Conference, University of California, Davis, May, 2005.

Keynote Speaker, Society for Psychophysiological Research, Dallas, Texas, 2008.

Plenary Lecture, Japanese Psychological Association, Hokaido, Japan, 2008.

Award Lecture (Distinguished Scholar Alumnus Award) “Cognitive Neuroscience”, ARCS Foundation Annual Ceremony and Banquet, San Francisco, CA, October, 2010.

Plenary Lecture, Conference on Basic and Clinical Research in Neuroscience, Leibniz Institute for Neurobiology, University of Magdeburg, Magdeburg, Germany, 2013.

Radboud Excellence Initiative Lecture "The Science of Attention", Nijmegen, The Netherlands, 2016.

Symposia, Conferences and Summer Schools Organized

Symposium Organizer/Chair, "Attention and Event-Related Potentials", Tenth International Conference on Event-Related Potentials of the Brain, Eger, Hungary, June, 1992.

Symposium Organizer/Chair, "Functional Measures of Cognitive Processes", Society for Psychophysiological Research, September, 1993, Rottach-Egern, Germany.

Chair (invited), "Human Behavioral Neurobiology: Attention and Memory", Society for Neuroscience, November, 1993, Washington, D.C.

Conference Organizer and Symposium Chair, "Cognitive Neuroscience Society", San Francisco, CA, March, 1994.

Conference Organizer, "Mapping Cognition in Time and Space: Combining EEG and MEG with Functional Imaging", Magdeburg, Germany, July, 1994.

Symposium Chair, "Attention: Mechanism and Models", Cognitive Neuroscience Society, San Francisco, March, 1994.

Chair (invited), "Human Behavioral Neurobiology: Attention and Memory", Society for Neuroscience, November, 1994, Miami, Florida.

Co-Chair, Functional Imaging Workshop: "How to do it, How to interpret it". San Francisco, CA, March 1995.

Symposium Organizer/Chair, "Convergent Approaches in the Study of Human Cognition". 8th World Congress of Psychophysiology, Tampere, Finland, June, 1996.

Symposium Organizer/Chair (with Alan Kingstone) "Cognitive Neuroscience and Visual Attention: Convergent Approaches" International Congress of Psychology, Montreal, Canada, August, 1996.

Symposium Organizer/Chair, "Multimodal Integration in Neuroimaging" Brain Map '96 meeting in San Antonio, December, 1996.

Director, McDonnell Summer Institute in Cognitive Neuroscience "Functional Imaging", Hanover, New Hampshire, July, 1997.

Symposium Organizer/Chair, "Mapping Cognition in Space and Time: Integration of Electromagnetic Recording and Functional Neuroimaging in Human Neuroscience". Society for Neuroscience Annual Meeting, New Orleans, 1997.

Symposium Organizer/Chair, "Multimethodological Integration in Brain Imaging " Brain Map '97 meeting in San Antonio, December, 1997.

Symposium Organizer/Chair, "Contributions of functional imaging to cognitive theory: What have we learned?" Cognitive Neuroscience Society, San Francisco, April, 1998

Symposia Organizer/Chair, "Convergent Approaches to the Study of Attention", EPIC International Conference, Boston, Mass., July, 1998.

Symposium Organizer/Chair, "Mapping Cognition in Space and Time: Integration of Electromagnetic Recording and Functional Neuroimaging In Human Neuroscience, SFN Sponsored Symposium, Society for Neuroscience, New Orleans, 1998.

Symposium Organizer/Chair, "Multimethodological Integration in Cognitive Brain Imaging " Brain Map '98 meeting in San Antonio, December, 1998.

Symposium/Social Organizer/Chair, Society for Neuroscience Social in Cognitive Neuroscience, "Imaging Cognition: Are we there yet?". Annual Meeting of the Society for Neuroscience, Miami, 1999.

Satellite Symposium Organizer, "Attentional Processes In Perception And Working Memory", Cognitive Neuroscience Society, Washington, D.C., 1999.

Symposium Organizer/Chair, "Probing the Brain's Attention System by Integrating ERPs and fMRI" Seventh International Conference on Cognitive Neuroscience, Budapest, Hungary, 1999.

Conference Organizer, Fifth Annual International Meeting of the Association for the Scientific Study of Consciousness (ASSC5), "The Contents of Consciousness", Duke University, May 2001.

Satellite Symposium Organizer, "Neural Mechanisms of Executive Control of Cognition", The meeting of the Cognitive Neuroscience Society, San Francisco (April, 2002).

Symposium Organizer/Chair, "Cortical Mechanisms in Executive Control of Behavior", SFN sponsored symposium, Society for Neuroscience, Orlando, Fl., 2002.

Symposium Co-Organizer/Co-Chair, "Awareness, Attention and the Brain in Conscious Experience", Satellite Symposium of the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA, 2004.

Conference Co-Organizer/Co-Chair, "Exploring the Mind: Multiple Perspectives in Decision Making". National Institute of Drug Abuse sponsored conference, Davis, CA, Spring, 2004.

Conference Organizer, "Attention, Awareness and Action", UC Davis, Mondavi Center, July 2006.

Workshop Co-Organizer, "Neurobiology of Psychological Torture", UC Davis, Center for Mind and Brain, September, 2006.

Satellite Symposium Co-Organizer, "The Cognitive Neuroscience of Mind: A Tribute to Michael S. Gazzaniga, Cognitive Neuroscience Society, San Francisco, CA 2008.

Section Co-Organizer, "Cognitive Neuroscience of Attention", Summer Institute in Cognitive Neuroscience, Tahoe, California, 2008.

Satellite Symposium Organizer, "Cognitive Electrophysiology: Signals of the Mind". Cognitive Neuroscience Society, San Francisco, CA, 2011.

NIMH Summer Institute in Cognitive Neuroscience, 2011, 2012, 2013 & 2014 Santa Barbara and Lake Tahoe, California.

Kavli Futures Symposium Director, “Emerging Technologies for Neuroscience: Building the New Brain Science”, Santa Barbara, CA, July 2015.

Symposium Organizer (invited), “Toward a Mechanistic Approach to Mindfulness Meditation Training”, Society for Psychophysiological Research (SPR), Seattle, Washington, 2015.

Symposium Organizer (with P. Reuter-Lorenz), “Cognitive Neuroscience Society 30th Anniversary Symposium”, San Francisco, CA, 2023.

Symposia Lectures

"The Electrophysiology of Human Visual Attention", In: Attention and the Brain, American Psychological Society, Washington, D.C., 1991.

"Attentional Control of Sensory Transmission in the Human Visual Cortex", In: New Developments in Event-Related Potentials, Hannover, FRG, 1991.

Session Chair, "Electrophysiology of Motor Control and Neurological Disease", In: New Developments in Event-Related Potentials, Hannover, FRG, 1991.

"Brain Waves and Visual Attention", In: Brain Physiology and Cognition: A Tribute to Robert Galambos. La Jolla, CA, 1991.

"Event-Related Potentials and Visual Attention", International Neuropsychological Symposium, Taormina, Sicily, 1991.

"Electrical Brain Imaging" International Neuropsychological Symposium, Taormina, Sicily, 1991.

"Electrophysiological Measures of Interhemispheric Transfer" 2nd Dartmouth International Conference on the Corpus Callosum and Epilepsy, Hanover, N.H., 1991.

"Brain Mechanisms of Visual Selective Attention", Canadian Society for Brain, Behavior and Cognitive Science, Quebec, Canada, June, 1992.

"Electrophysiological Studies of Visual Attention and Their Relation to PET Results: A Commentary on Posner", American Psychological Society, San Diego, CA., June 1992.

"Imaging Brain Activity Related to Perceptual and Cognitive Processes" In: Modern Techniques in Cerebral Imaging, El Escorial, Spain, July, 1992.

"Interhemispheric transfer of visual information" In: Dynamic Brain Mapping", Institute for Cognitive and Decision Sciences, University of Oregon, September, 1992.

"Combining PET and ERPs to localize attentional selection in time and space". University of Illinois (invited): Converging Operation In The Study Of Visual Selective Attention: In honor of Charles Eriksen.

"Event-related potential measures of linguistic and musical expectancy". Von Karajan-Stiftung Foundation Conference (invited). Vienna Austria, June, 1994.

"Electrophysiological and Neuroimaging Approaches to the Study of Human Cognition". European Summer Institute in Cognitive Neuroscience, Nijmegen, Holland, June 30, 1994.

"Event-related Potential Correlates of Early Attentional Selection in Vision". University of Nijmegen, Department of Psychology, Nijmegen Holland, July 5, 1994.

"Combined PET and ERP Studies of Visual Attention". University of Amsterdam Mini conference on Visual Information Processing, Amsterdam, Holland, 1994.

"Combined use of PET and ERPs in the Study of Visual Attention" Conference on Supercomputers in Brain Research. Julich, Germany. 1994.

"Combining Electromagnetic and Functional Imaging in Studies of Cognition and Perception". Conference on Convergent Methods in Neuroscience, Julich, Germany. 1995.

"Challenges and limitations for the integration of electromagnetic recording and functional neuroimaging in the study of human cognition". Brain Map '95 meeting in San Antonio, December, 1995.

"Asymmetries in signal detectability following damage to the parietal cortex". 8th World Congress of Psychophysiology, Tampere, Finland, 1996.

"Combining electrophysiology and positron emission tomography in the study of spatial selective attention". International Congress of Psychology, Montreal, Canada, August, 1996.

"Combined PET and ERP measures of visual spatial attention during form discrimination and luminance detection. Society for Psychophysiological Research, Vancouver, 1996.

"Integrating electrophysiology with functional neuroimaging", Third International Congress on Functional Imaging of the Human Brain. Copenhagen, Denmark, May, 1997.

“Integrating electrophysiology and function neuroimaging in human cognition. BASIC Conference, Banff, Alberta, Canada, May, 1998.

“Attention!” EPIC International Conference, Boston, Mass., July 1998.

"The Functional Architecture of Visual Attention" presented at the 18th International Conference on Attention and Performance, Windsor Great Park, England, July 1998.

"Integrating Functional Neuroimaging and Electrophysiology in the Study of Human Attention", American Psychological Association Annual Meeting, San Francisco, August, 1998.

“Combining human electrophysiology and functional neuroimaging in the study of selective visual attention”, presented at “Cognitive Neuroimaging Research: Design and Interpretation Meeting”, Division of Mental Disorders, Behavioral Research and AIDS, NIMH, September, 1998.

“Combining functional neuroimaging with ERPs to measures localization and timing of attentional operations”, presented in, “Functional Neuroimaging of Human Cognition”, Michigan State University, East Lansing, MI, October, 1998.

“Cortical Mechanisms for the Control of Orienting to Locations, Features and Objects”, presented in "Neural Mechanisms of Executive Control of Cognition", Satellite symposium of the Cognitive Neuroscience Society meeting, San Francisco (April, 2002).

“Cortical Mechanisms of Attentional Control”, presented in “Cortical Mechanisms in Executive Control of Behavior", SFN sponsored symposium, Society for Neuroscience, Orlando, Fl., 2002.

Colloquia

"Electrophysiological Studies of Visual-Spatial Attention In Humans", Vision Group Seminar, Dept. of Psychology, UCSD, 1988.

"Cerebral Specialization: Evidence in Humans Following Commissurotomy", Lecture to Honors Course, Dept. of Biological Sciences, Northern Arizona University, 1989.

"Visual Attention", Colloquium, Department of Psychiatry, Harvard Medical School/Brockton VAMC, Massachusetts, 1989.

"ERP Measures of Attentional Orienting in Humans", Colloquium, Department of Neurology, Medical School of Hannover, Federal Republic of Germany, 1989.

"The Electrophysiology of Visual Attention", Colloquium, Program in Cognitive Neuroscience, Dartmouth College, New Hampshire, 1989.

"Investigations of Brain Mechanisms of Attention in Split-Brain Patients", Colloquium, Department of Psychiatry, Harvard Medical School/Brockton VAMC, Massachusetts, 1989.

"Cognition and the Cerebral Hemispheres: Comments on Split-Brain Patients" Lecture to Medical Gross Anatomy Course, Brown Medical School, 1990.

"ERPs, Mental Chronometry and Localization of Function", Workshop organized for McDonnell Summer Institute, Dartmouth Medical School, 1991.

"Brain Mechanisms of Attention" Rose F. Kennedy Center, Albert Einstein College of Medicine, April 1992.

"Electrophysiology of Attention" Department of Psychology, University of California, Berkeley, Nov. 1992.

"Combined PET and ERP Studies of Selective Attention in Humans" Oregon Attention Conference, May 1993.

"Functional Architecture of Brain Attention Systems", University of Helsinki, August, 1993.

"Combining ERP and PET in the Study of Brain Attention Systems", Helsinki University of Technology, August, 1993.

"Neural Architecture of Brain Attention Systems" University of Amsterdam, July, 1994.

"Functional architecture of brain attention systems" University of California, Santa Cruz, January, 1995.

"Integration of PET and ERPs in Studies of Visual Spatial Attention", University of Oregon, March, 1996.

"Mechanisms of Attention" First International Summer School in Cognitive Neuroscience, University of Groningen, Holland, June, 1996.

"Functional Imaging in Studies of Human Cognition: Combining electrical and blood flow methods", Stanford University, January, 1997.

“Probing Attention and Awareness Using ERPs and Functional Imaging”, Purdue University, March, 1998.

"Neural Networks for Attentional Control of Sensory Processing", Rockefeller University and Cornell's Sackler Institute, November, 2000.

"Neural Mechanisms of Selective Perception and Attentional Control", Northwestern University, Dept. of Psychology and Program in Cognitive Neuroscience, February, 2002.

“Functional Architecture of Visual Attention”, Department of Neurobiology, Physiology and Behavior Colloquium, University of California, Davis, 2002.

“Brain Mechanisms of Attention”, Neurology Grand Rounds, UCDMC, 2003.

“Neural Control of Attention – Orienting, attending and selecting”, F.C. Donders Centre for Cognitive Neuroimaging, Nijmegen, The Netherlands, 2007.

“The Mind’ Eye: Attention Control and Selection”, Center for the Neural Bases of Cognition, University of Pittsburgh, and Carnegie-Mellon University, 2009.

“Attention, Selection and Conflict in Brain Function”, Neurosciences Program, UC San Diego, 2010.

"Neural Mechanisms of Attentional Control", Department of Psychology, University of Amsterdam, The Netherlands, 2016.

"Attention, Awareness and Free Will: From Synapse to Neural Systems, Donders Centre for Cognitive Neuroimaging, Radboud University, Nijmegen, The Netherlands, 2016.

“Dos and Don'ts on the Academic Job Market” The Sante Fe Institute, Sante Fe, New Mexico, 2020.

“The Specificity of Control Model of Attention” The Sante Fe Institute, Sante Fe, New Mexico, upcoming.

“Neuroscience of Attention and Attentional Control” Max Planck Institute for Biological Cybernetics, Tuebingen, FRG, upcoming.