Curriculum Vitae 2025

GEORGE R. MANGUN

PERSONAL DATA

Citizenship: US

Married: Tamara Swaab; two children, Alexander (23) and Nicholas (21)

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

2024-	Co-Director, Center for Mind and Brain, University of California, Davis.
2019-2024	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/Associate/Full Professor of Psychology, Center for Neuroscience, UC Davis.
1991-92	Director, Graduate Program in Cognitive Neuroscience, Dartmouth College.
1990-92	Assistant Professor of Psychiatry/Program in Cognitive Neuroscience, Dartmouth Medical School.
1988-90	Assistant Research Neuroscientist, Department of Neurosciences, UC San Diego.

HONORS AND AWARDS

2025	Fulbright U.S. Distinguished Scholar Award to the Center for Human Brain Health, and School of Psychology, University of Birmingham, United Kingdom.
2024	Award for Education in Neuroscience, Society for Neuroscience
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, 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.
	2001 1999 1994 1993 1991 1985 1984 1982

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) 2013-2020.

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, <u>Currently</u>: Journal of Cognitive Neuroscience (MIT Press); Cognitive Neuroscience (Taylor & Francis), Biological Psychology (Elsevier) <u>Past</u>: 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:

U.S. National Committee for Psychological Science (USNC/IUPsyS), The National Academies, ex officio member (2024-2027).

National Science Foundation, Cognitive Neuroscience Panel (2022)

Max Planck Society (FRG), Chair, Scientific Advisory Board (Fachbeirat), MPI for Psycholinguistics, Nijmegen (1/2016-12/2024).

International Scientific Advisory Board (Chair), Basque Center on Cognition, Brain and Language, Spain (2009-present)

U.S. National Committee for Psychological Science (USNC/IUPsyS), The National Academies, Cognitive Neuroscience Society *Liaison* (2015-2024).

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, Ph.D. (Psychology), Postdoc, UC Davis, 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, Grace Lim, Megan Wong, Jose Samano Catalan, Ellie Covarrubias, Lana Abrera, Hao Ngo, Sophia Kinnear, Grace Campaign, Atticus Mackey

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, and Investigator, National Eye Institute.

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, Professor of Psychology (tenured), University of California, Davis.
- Evelijne M. Becker, Ph.D. (TALENT postdoctoral fellow, UCD Center for Mind and Brain, 2005-2006). Subsequently, Phillips Medical, Eindhoven, The Netherlands.
- 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.
- * John Nadra, Ph.D., (Psychology doctoral student, and NEI Trainee, 2019-24) Currently, Postdoctoral Fellow UC Davis.

^{*} 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
- Kavli Foundation (P.I., Mangun, G.R.). Environmental Lighting, Stress and Human Attention, 08/02/2023 07/30/2025. This grant supports research on ambient lighting effects on attention and stress. Total Award: \$60,000

ACTIVE (Training Grants and Fellowships):

- NIMH R25MH080794 (P.I., Luck, S.) "Yearly Workshop in the Event-Related Potential Technique" 01/01/2019 12/31/24 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:

- NEI 1R01EY037346 (P.I., Mangun, G.R.; M.P.I., Ding, M.) "Attention Control and Selection in Visual Cortex"
- R21MH133009 (P.I., Meyyappan, S.) "Neural oscillatory mechanisms of feature attention control" Role: Investigator.

PAST:

- 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
- Toyota-Boshuko (P.I.s Siminovitch, M., & Mangun, G.R.) "Physiological measures of stress reduction with ambient lighting" 7/1/22-9/30/23 \$275,000
- Kavli Foundation (P.I., Mangun, G.R.) "Kavli Summer Institute in Cognitive Neuroscience. 08/02/2015 07/30/2023. 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
- 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: 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

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Edited Books, Textbooks, Special Issues

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- 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 <u>Society for Neuroscience</u>, San Diego, CA.
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- 156. 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," <u>Vision Sciences Society</u>, 23.453, St. Pete's Beach, Florida.
- 157. 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. <u>Cognitive Neuroscience Society Meeting</u>, Boston, MA (Virtual).
- 158. Meyyappan, S., A. Rajan, S. Kim, J.J. Bengson, G.R. Mangun, M. Ding. (2020). Decoding visual spatial attention control. <u>Cognitive Neuroscience Society Meeting</u>, Boston, MA (Virtual).
- 159. 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).
- 160. Das, S., M. Ding, G.R. Mangun. (2020). Optimal Parameters for Alternating Event-related fMRI Designs. Cognitive Neuroscience Society Meeting, Boston, MA (Virtual).
- 161. 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).
- 162. Nadra, J., A. Mittal, J. Bengson & G. R. Mangun (2020). Mechanisms of overt attention in visual search: Eye tracking, hemifield bias and willed attention. <u>Cognitive Neuroscience Society Meeting</u>, Boston, MA (Virtual).
- 163. Das, S., Mangun, G.R., & Ding, M. (2021). Deconvolution and Analysis of Responses in Alternating Event Related fMRI Designs. <u>Society for Neuroscience Global Connectome Meeting</u>, January 2021 (Virtual).
- 164. Nadra, J., Bengson, J., Ding, M., & Mangun, G. (2021). Tracking the Onset of Willed Attention: EEG, Alpha Oscillations & Machine Learning. <u>Association for Psychological Science Annual Meeting</u>, May 2021 (Virtual).
- 165. 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.
- 166. 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. <u>Society for Neuroscience Abstracts</u>.
- 167. Das S., Mangun G. R., Ding M. (2021). Feature-based Attention Enhances Task Performance in a Deep Neural Network Model of Ventral Visual System. <u>Cognitive Neuroscience Society Annual Meeting</u>. 13-16 March.
- 168. Krieger, O., Astleford, K., Olivan, D., Chamberlain, M., Ding, M., Mangun, G. (2021). Anticipation and attention to the spatial scale of visual stimuli. <u>Cognitive Neuroscience Society Annual Meeting</u>, San Francisco (virtual).
- 169. Q. Yang, S. Meyyappan, J. J. Bengson, G. R. Mangun, M. Ding (2021). Frontoparietal Control of Willed Attention. <u>Society for Neuroscience Abstracts</u>, Vol. 47, Prog. No. P769.07.
- 170. 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.
- 171. 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.
- 172. 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. <u>Cognitive Neuroscience Society Annual Meeting</u>, San Francisco, CA.
- 173. 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. <u>Cognitive Neuroscience Society Annual Meeting</u>, San Francisco, CA.

- 174. Das, S., Meyyappan, S., Ding, M., Mangun, G.R. (2023). Decoding Neural Patterns Associated with Cross-Modal Attention to Auditory and Visual Stimuli. <u>Cognitive Neuroscience Society Annual Meeting</u>, San Francisco, CA.
- 175. Nadra, J., Ding, M., Mangun, G. (2023). The Neural Mechanisms of Color Willed Attention. <u>Cognitive Neuroscience Society Annual Meeting</u>, San Francisco, CA.
- 176. 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. <u>Cognitive Neuroscience Society Annual Meeting</u>, San Francisco, CA.
- 177. Nadra, J., Bengson, J., Ding, M., & Mangun, G.R. (2024) Decoding EEG correlates of willed overt attention during visual search. Cognitive Neuroscience Society Annual Meeting, Toronto, Canada.
- 178. Yang, Q., Meyyappan, S., Ding, M., Mangun, G.R. (2024). From preparatory attention to stimulus selection: Neural mechanisms revealed by multivariate analysis of fMRI data. <u>Society for Neuroscience Abstracts</u>, Program #PSTR421.02, Chicago, Ill.

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.

Fulbright US-UK Distinguished Chair Lecture, "Attention and Brain Function", University of Birmingham, UK (upcoming).

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.

"Thirty Years of Cognitive Neuroscience: Wiggles, Blobs, Networks and Models of the Mind", present in "Highlights in Language Science", Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, 2024.

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.

"Attention, Intention and Freewill" Department of Neurology, University of Magdeburg, FRG, On the occasion of the retirement of Professor Dr. Hermann Hinrichs, 2023.

"Attention, Awareness, and Free Will: Behavior to Neural Mechanisms" Center for Human Brain Health and School of Psychology, University of Birmingham, UK, 2025.

"Brain Mechanisms of Attention: Control and Selection in Vision" Department of Psychology, Vrije Universitaat, Amsterdam, The Netherlands, 2025.

"Brain Mechanisms of Attention: Sensory Selection to Free Will" Department of Psychology, Oxford University, UK, 2025.

"Brain Mechanisms of Attention: Sensory Selection to Free Will" Functional Imaging Lab, University College London, UK, 2025.

"Brain Mechanisms of Attention: Sensory Selection to Free Will" Department of Psychology, Cambridge University, UK, 2025.