Wake Forest University School of Medicine
Curriculum Vitae

NAME: Jonathan Hill Burdette, M.D.

CURRENT ACADEMIC TITLE: Professor of Radiologic Sciences – Radiology
Section Chief of Neuroradiology
Vice-Chairman of Research – Radiology
Affiliate Faculty in Biomedical Engineering

ADDRESS: Department of Radiology
Division of Radiologic Sciences
Wake Forest University School of Medicine
Medical Center Boulevard
Winston-Salem, North Carolina 27157-1088
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EDUCATION:

College:	Duke University Durham, North Carolina B.S.E. in Biomedical Engineering	1985-1989
	Oxford University (New College) England (summer) Major: Law and Liability	1988
Honors and Awards:	Angier B. Duke Memorial Scholar Full tuition	1985-1989
	Richard Miles Thompson Engineering Scholar Academic Engineering Scholarship ($2000/year)	1987-1989
	Tau Beta Pi Engineering Honor Society	1988
	Summa cum laude	1989
	Phi Beta Kappa Honor Society	1989
	Graduation with Distinction for Senior Engineering Thesis	1989
Medical School:	The University of Tennessee College of Medicine Memphis, Tennessee M.D.	1989-1993
Honors and Awards:	Doggett Merit Scholar 1 of 4 students chosen; full tuition	1989-1993
	Named Best Male Athlete, UT Memphis	1990-1991
	Alpha Omega Alpha (AOA)	1993

POSTDOCTORAL TRAINING:

Residency:	The University of Michigan Hospitals Radiology Resident Ann Arbor, Michigan	1993-1997
Honors and Awards:	University of Michigan Outstanding Scientific Radiology Resident Research Paper	1995
Fellowship:	Wake Forest University/Baptist Medical Center Neuroradiology Fellow Winston-Salem, North Carolina	1997-1999

PROFESSIONAL LICENSURE:

United States Medical License Passed USMLE Parts I, II, and III North Carolina Medical License (# 97-00877) Virginia (# 0101222264) New York (#216280)	1991-1994

SPECIALITY CERTIFICATION:

Board Certification: The American Board of Radiology	1997
Certificate of Added Qualification in Neuroradiology	2000

ACADEMIC APPOINTMENTS:

Academic Experience:

Clinical Instructor Department of Radiology Wake Forest School of Medicine Winston-Salem, North Carolina	1998-1999
Assistant Professor of Radiologic Sciences Department of Radiology Wake Forest School of Medicine Winston-Salem, North Carolina	1999-2004
Adjunct - Professor of Neuroscience Program Wake Forest School of Medicine Winston-Salem, North Carolina	2000-Present
Associate Professor of Radiologic Sciences Department of Radiology Wake Forest School of Medicine Winston-Salem, North Carolina	2004-2010
Professor of Radiologic Sciences Department of Radiology	2010-Present

Wake Forest School of Medicine
Winston-Salem, North Carolina

PROFESSIONAL APPOINTMENTS AND ACTIVITIES:

Editorial Work:

Ad hoc Reviewer

American Journal of Neuroradiology (AJNR)	2000-Present
Acta Paediatrica	2000-Present
Journal of Computed Assisted Tomography	2001-Present
Neuroscience Letters	2003-Present
Cognitive Brain Research	2005-Present
Neuroscience and Biobehavioral Reviews	2007-Present
Journal of Pediatric Neuroradiology	2016-Present

Committee appointments: (National)

NIH Grant Reviewer: Federal Government Advisory Committees

1. Development of novel technologies for in vivo imaging: PAR 01-101, 102.	Oct. 2001
2. National Center for Complementary and Alternative Medicine (NCCAM)	Oct. 2003
3. Behavioral Genetics and Epidemiology (ZRG1 PSE-D(02))	Nov. 2016

Radiological Society of North America Grant Review Panel, Chicago, Illinois — March 2002, March 2003, March 2004

Functional MRI Task Force (1 of 7 members, nationally) — 2002-2005

Radiological Society of North America (RSNA) — 2003-2006
Education Exhibits Awards Committee
Judged all of the Neuroradiology Posters at the National Meeting

Radiological Society of North America (RSNA) — 2004-2007
Education Committee: Neuroradiology Subcommittee

Radiological Society of North America (RSNA) — 2007
RadLex Committee
Computed Tomography Lexicon Development Committee

INSTITUTIONAL SERVICE:

Hospital, School, Medical Center Committees:

Director — 2000-Present
Clinical Neuro MRI
Head of Clinical MRI Protocols
Wake Forest School of Medicine

Radiology Benefits Committee — 2001
Wake Forest School of Medicine

Resident Selection Committee, Department of Radiology — 2001-Present
Wake Forest School of Medicine

Residency Education Committee — 2001-Present
Wake Forest School of Medicine

Member — 2001-Present
Neuroscience Graduate Program Faculty
Wake Forest School of Medicine

Neuroradiology Liaison for Resident Education — 2002-Present
PRRE: Person with Responsibility for Resident Education for Neuroradiology
Wake Forest School of Medicine

Chair — 2003
Committee to Evaluate a Faculty Promotion
Wake Forest School of Medicine

Neuroradiology representative for ACGME residency accreditation process — 2003, 2009
Wake Forest School of Medicine

Councilor — 2005-2007
Western North Carolina Society for Neuroscience
Centered at Wake Forest School of Medicine

Reviewer — 2006
Travel Award to the Society of Neuroscience Annual Meeting
for Graduate Students at Wake Forest School of Medicine

Grant Reviewer — 2007
TSI Pilot Grants
Wake Forest School of Medicine

Member — 2007-Present
Visual and Performing Arts Committee for the Medical Center
Wake Forest School of Medicine

Grant Reviewer — 2009-Present
MSRP Summer Research Program
Wake Forest School of Medicine

Member — 2009-Present
Institutional Review Board (IRB)
Wake Forest School of Medicine

Clinical Director — 2010-Present
Translational Science Center
Wake Forest University

Vice-Chairman of Research for the Department of Radiology — May 2013-Present
Wake Forest School of Medicine

PROFESSIONAL MEMBERSHIPS:

Radiological Society of North America
American Society of Neuroradiology, Senior Member
American Medical Association
Association of University Radiologists (AUR)
Western North Carolina Society for Neuroscience
Society for Neuroscience

HONORS AND AWARDS:

Winner of National German Language Award Received expense-paid study-trip to Germany Funded by The Federal Republic of Germany	1984
Marconi Medical Systems/AUR Faculty Development Program, Orlando, Florida	2000
Berlex Outstanding General Neuroradiology Paper American Society of Neuroradiology Meeting: Atlanta, GA "Diffusion-weighted imaging of protein solutions at 1.5T—dependence of the apparent diffusion coefficient upon protein concentration"	2000
Advanced Course in Grant Writing Radiological Society of North America Chicago, Illinois	2000-2001
GE – AUR Radiology Research Academic Fellowship	2002-2004
Recipient of the Award for New Investigator in Clinical Sciences 8th Annual Wake Forest University School of Medicine Basic and Clinical Research Awards	2004
U.S. New & World Report "Best Doctors in America" List	2005-Present
Walter M. Whitehouse Memorial Lecturer University of Michigan, Department of Radiology	2006
Derek Harwood-Nash Award (co-author) ASNR Outstanding Presentation Award in Pediatric Neuroradiology New Orleans, LA "*Changes in Global Rates of Cerebral Perfusion Associated with Normal Development as Measured with MR Arterial Spine Labeling"*	2008
"Friends of Students" Award from the Class of 2012 Wake Forest University School of Medicine	Spring 2009

PROFESSIONAL INTERESTS

Research Interests: My current research focuses on using advanced MR imaging techniques to study the brain as a complex network. I am a founding member of the Laboratory for Complex Brain Networks (LCBN), and in the

LCBN, we use diffusion tensor imaging, perfusion imaging, voxel-based morphometry, and functional MRI (fMRI) to study brain networks using network theory approaches. Such approaches analyze the entire brain and view brain processing as a complex system. I am applying these techniques to learn how exercise, nutritional habits, beet root juice, and meditation affect the functioning brain in the elderly.

GRANTS: CURRENT

Pilot Grant 12/01/2023 – 11/30/2025 0% effort
WF-TARC/CFAR $67,500 total
The Effects of Next-Generation Weight Loss Drugs on Alcohol Craving and Brain Network Connectivity
The goal of this pilot study is to generate preliminary data that either supports or refutes anecdotal clinical evidence that patients on GLP1RAs such as semaglutide (Ozempic or Wegovy) have reduced desires to drink alcohol.
Co-Principal Investigators: **Jonathan Burdette, MD** and Kristina Henderson Lewis, MD, MPH

GRANTS: PENDING

R01 04/01/2025 - 03/30/2030 13.3% effort
NIAA/NIH $ 3,624,664 total
Information processing in the brain: alterations of triple network processing capacity in alcohol use disorder
This project will use a novel measure of information processing, called the fractional processing load (FPL), to assess information processing on a brain network. The overarching objective is to use FPL to compare information processing within brain subnetworks of individuals with alcohol use disorder (AUD) to infrequent drinkers.
Co-Principal Investigator: Paul Laurienti / Erik Bollt
Role: Co-Investigator

GRANTS: PAST

Wake Forest University School of Medicine Intramural Research Support Committee 03/2001 – 03/2002
Title: Neural Plasticity and Sensory Processing: fMRI Measures on the Effects of Myopia on Stimulus-induced Activity in Visual and Auditory Cortex
Principal Investigator: **Jonathan Burdette, MD**
Total Grant Amount: $11,300

P01 HD35955 12/1998 – 11/2003
NICHD
Title: Implications of Cortical Plasticity for Rehabilitation
Principal Investigator: Timothy P. Pons, MD
Total Grant Amount: $3,898,594

P01 HD21887 12/1998 – 11/2003
NICHD
Title: Genotypic and Phenotypic Heterogeneity in Dyslexia
Principal Investigator: Frank Wood, PhD
Total Grant Amount: $1,066,888

General Electric-Association of University Radiologists Radiology Research Academic Fellowship (GERRAF) 07/2002 – 6/2004
Title: Using fMRI to Evaluate Sensory Processing in Dyslexia

Principal Investigator: **Jonathan Burdette, MD**
Total Grant Amount: $130,000

R01 HL070825 10/2002 – 10/2005
NHLBI
Title: The ARIC MRI and Neurocognitive Longitudinal Study
Subcontract PI: Laura Coker, PhD
Total Grant Amount: $5,071,949

R21 NS044149 06/2004 – 05/2006
NINDS
Title: Alteration of Cross-Modal Sensory Processing in Dyslexia
Principal Investigator: **Jonathan Burdette, MD**
Total Grant Amount: $342,530

Center for Investigative Neuroscience at Wake Forest University School of Medicine 07/2003 – 06/2006
Title: Multisensory Processing Deficits in Dyslexia
Principal Investigator: **Jonathan Burdette, MD**
Total Grant Amount: $19,350

R03 HD050860 07/2005 – 06/2007
NICHD
Title: A Multisensory Framework for Developmental Dyslexia
Principal Investigator: Mark Wallace, PhD
Total Grant Amount: $146,000

R21 HD049019 10/2005 – 08/2007
NICHD
Title: Motor Functional Neuroanatomy in Cerebral Palsy
Principal Investigator: George Wittenberg, MD, PhD
Total Grant Amount: $179,878

R21 HD049019 09/2005 – 09/2007
NICHD
Title: Motor-Functional Neuroanatomy in Cerebral Palsy
Principal Investigator: Lumy Sawaki, MD, PhD
Total Grant Amount: $310,801

R01 MH068896 08/2004 – 05/2009
NIMH
Title: Integrated Tool for Biological Parametric Mapping
Principal Investigator: Joseph A. Maldjian, MD
Total Grant Amount: $1,740,725

R01 EB03880-04 04/2005 – 01/2010
NIBIB
Title: The Effects of Caffeine on Functional and Perfusion MRI
Principal Investigator: Paul J. Laurienti, MD, PhD
Total Grant Amount: $1,250,000

R21 NS056272 07/2007 – 06/2011
NINDS
Title: MR Imaging and Genotype/Phenotype association in a South African dyslexia cohort.

Principal Investigator: **Jonathan Burdette, MD**
Total Grant Amount: $272,555

Translational Science Center 07/2011 – 06/2012
Wake Forest University
Title: Brain Network Analysis in Aging with the Confounding Influence of Obesity (BICN)
Principal Investigator: **Jonathan Burdette, MD**
Total Grant Amount: $4,750

Clinical Research Unit 07/2011 – 06/2012
Wake Forest School of Medicine
Title: Brain Network Analysis in Aging with the Confounding Influence of Obesity (BICN)
Principal Investigator: **Jonathan Burdette, MD**
Total Grant Amount: Internal funding

R01 NS039426 12/1999 – 03/2014
NINDS
Title: Supraspinal Processing of Sensory Aspects of Pain
Principal Investigator: Robert Coghill, PhD
Total Grant Amount: $ 4,630,790

U01 HL096814 07/2010 – 04/2014
NHLBI / NINDS
ARIC Neurocognitive Study (ARIC-NCS)
Principal Investigator: Lynne Wagenknecht, DrPH
Total Grant Amount: $3,514,143

Translational Science Center 07/2012 – 06/2014
Wake Forest University
Title: Brain Network Analysis in the Cooperative Lifestyle Intervention Program (CLIP II Imaging)
Principal Investigator: **Jonathan Burdette, MD**
Total Grant Amount: $17,000 annual

Industry Contract 09/2013 – 08/2014
The Hershey Company
Title: Effects of a Cocoa Shot on the Human Brain – Pilot
Co-Principal Investigators: Paul Laurienti, MD, PhD / **Jonathan Burdette, MD**
Total Grant Amount: $132,121

R01 HL089115 02/2008 – 11/2014
NHLBI
Title: Improving Neurologic Outcomes in Diabetics Undergoing Cardiac Surgery
Principal Investigator: Edward Kincaid, MD
Total Grant Amount: $3,609,424

R01 ES 008739-16S1 03/2013 – 02/2015
NIEHS
Title: CBPR On Pesticide Exposure & Neurological Outcomes For Latinos: PACE4
Principal Investigator: Paul Laurienti, MD, PhD
Total Grant Amount: $302,141

LCBN / Sticht Center 07/2012 – 10/2016
Title: Network Imaging Initiative

Principal Investigator: Paul Laurienti, MD, PhD
Total Grant Amount: $200,000

Industry Contract 03/2014 – 02/2017
The Hershey Company
Title: Effects of a Cocoa Shot on the Human Brain II
Co-Principal Investigators: Paul Laurienti, MD, PhD / **Jonathan Burdette, MD**
Total Grant Amount: $455,995

R18 HL076441 03/2012 – 02/2018
NHLBI
Title: Cooperative Lifestyle Intervention Programs (CLIP II)
Principal Investigator: W. Jack Rejeski, PhD
Total Grant Amount: $3,127,189

R01 ES008739 03/2013 – 02/2018
NIEHS
Title CBPR on Pesticide Exposure & Neurological Outcomes for Latinos: PACE4
Principal Investigator: Thomas Arcury, PhD / Paul Laurienti, MD, PhD
Total Grant Amount: $3,560,508

R01AG051624-02S2 09/2017 – 04/2021
NIA
This administrative supplement to EMPOWER will enable us to acquire baseline brain magnetic resonance imaging (MRI) scans on a random subset of n = 90 participants (EMPOWER has a total n = 160).
Co-Principal Investigators: Barb Nicklas and W. Jack Rejeski
Supplement PI: **Jonathan Burdette, MD**
Total Grant Amount: $124,000

P50 AA026117 12/2017 – 11/2022
NIAAA
How Mindfulness Modulates Craving and Brain Networks in Moderate-To-Heavy Drinkers
Principal Investigator: Jeffrey Weiner, PhD
Project PI: Paul Laurienti, MD, PhD
Total Grant Amount: $1,799,577 (Project 1)

R01 ES008739 09/1996 – 12/2022
NIH/NIEHS
The Effect of Pesticide Exposure on cognitive and Brain Development in Latino Children: PACE5
Co-Principal Investigators: Paul Laurienti, MD, PhD and Thomas Arcury, PhD
Total Grant Amount: $3,370,346

R01 AG052419 09/2017 – 12/2023
NIH/NIA
Resting Brain Networks and Mobility Function: B-NET
Co-Principal Investigators: Stephen Kritchevsky, PhD and Paul Laurienti, MD, PhD
Role: Co-Investigator
Total Grant Amount: $3,433,345

R01 AG052419 07/2018 - 04/2024
NIH/NIA
Role of cannabis on HIV-related cognitive impairment: a brain connectomics study
Principal Investigator: Christina Meade, PhD

Role: Co-Investigator
Total Grant Amount: $469,360

BIBLIOGRAPHY:

Textbooks:

1. Elster AD, **Burdette JH**. Questions and Answers in Magnetic Resonance Imaging, 2nd Ed. Mosby, A Harcourt Health Sciences Company, St. Louis. 2001.

2. Elster AD**, Burdette JH**. Questions and Answers in Magnetic Resonance Imaging, 2nd Japanese Edition. Medical Sciences International, Ltd., Toyko. 2003.

Book Chapters:

1. Tan H, **Burdette JH**. Non-gadolinium perfusion technique (Arterial Spin Labeling). Scott H. Faro, Feroze B. Mohamed, Meng Law, Editors. *Functional Neuroradiology: Priniciples and Clinical Applications*. Springer New York Heidelberg Dondrecht London. 2011.

2. Hugenschmidt, CE, Laurienti PJ, **Burdette JH.** Physical Exercise and the Resting Brain. Henning Boeker, Charles H. Hillman, Lukas Scheef, Heiko K. Strüder, Editors. *Functional Neuroimaging in Exercise Sciences*. Springer New York Heidelberg Dondrecht London. 2012.

3. McGehee BE, Maldjian JA, **Burdette JH**. MR perfusion imaging in clinical neuroradiology. Peter B. Barker, Xavier Golay, Gregory Zaharchuk, Editors. *Clinical Perfusion MRI: Techniques and Applications.* Cambridge University Press. 2013.

Articles (Not Peer Reviewed):

1. Simpson SL, **Burdette JH**, Laurienti PJ The brain science interface. Significance 2015; 12(4): 34-39.

2. Lipford M, Schoen J, Kim J, West T, **Burdette JH**, Geer C, Sachs J, Whitlow C. Which Dual Energy CT Method Uses Less Energy? Medical Physics. 2022 Jun;49(6):E435-E435.

3. Laurienti PJ, Kritchevsky SB, Lyday RG, Miller ME, Lockhart SN, Rundle MM, Hugenschmidt CE, **Burdette JH**, Shappell HM, Chen H, Baker LD, Neyland BR, Holtzer R. Resting-state connectivity modifies the effects of amyloid on cognitive and physical function: evidence for network-based cognitive reserve. bioRxiv 2024.11.07.622257; doi.org/10.1101/2024.11.07.622257

Journal Articles:

1. **Burdette JH**, Minoshima S, Vander Borght T, Tran DD, Kuhl DE. Alzheimer disease: improved visual interpretation of PET images by using three-dimensional stereotaxic surface projections. Radiology 1996; 198:837-43.

2. **Burdette JH**, Ricci PE, Petitti N, Elster AD. Cerebral infarction: time course of signal intensity changes on diffusion-weighted MR images. Am J Roentgen 1998; 171:791-95.

3. **Burdette JH**, Elster AD, Ricci PE. Calculation of apparent diffusion coefficients (ADCs) in brain using two-point and six-point methods. J Comput Assist Tomogr 1998; 22:792-94.

4. **Burdette JH**, Elster AD, Ricci PE. Acute cerebral infarction: quantification of spin-density and T2 "shine-through" phenomena on diffusion-weighted MR images in acute cerebral infarctions. Radiology 1999; 212:333-39.

5. Ricci PE, **Burdette JH**, Elster AD, Reboussin DM. A comparison of fast spin-echo, fluid-attenuated inversion-recovery, and diffusion-weighted MR imaging in the first 10 days after cerebral infarction. AJNR Am J Neuroradiol 1999; 20:1535-42.

6. **Burdette JH**, Santos C. Enterobacter sakazakii brain abscess in the neonate: the importance of neuroradiologic imaging. Pediatr Radiol 2000; 30:33-34.

7. Field AS, Yen YF, **Burdette JH**, Elster AD. False Cerebral Activation on BOLD fMRI Caused by Low-Amplitude, Weakly Correlated Motion: An Experimental Study. AJNR Am J Neuroradiol 2000; 21:1388-96.

8. **Burdette JH**, Opatowsky MJ, Elster AD. Stroke imaging: CT retains front-line status for acute cerebral infarction. Diagn Imaging 2001; 23:57-71.

9. Laurienti PJ, **Burdette JH**, Wallace MT, Yen Y-F, Field AS, Stein BE. Deactivation of sensory-specific cortices: evidence for cross-modal inhibition. Neuroimage 2001; 13:S904.

10. **Burdette JH**, Durden DD, Elster AD, Yen Y-F. High b-value diffusion-weighted MRI of normal brain. J Comput Assist Tomogr 2001; 25:515-19.

11. Maldjian JA, **Burdette JH**. Neuroimaging expands with functional MRI. Advanced MR: A Special Supplement to Diagnostic Imaging. Diagnostic Imaging, December 2001(Suppl); 7-9, 16.

12. Laurienti PJ, **Burdette JH**, Wallace MT, Yen Y-F, Field AS, Stein BE. Deactivation of sensory-specific cortex by cross-modal stimuli. J Cognitive Neuroscience 2002; 14:420-29.

13. Yen YF, Field AS, Martin EM, Ari N, **Burdette JH**, Moody DM, Takahashi AM. Test-retest reproducibility of quantitative CBF measurements using FAIR perfusion MRI and acetazolamide challenge. Magn Reson Med 2002; 47:921-28.

14. Chepuri NB, Yen YF, **Burdette JH**, Li H, Moody DM, Maldjian JH. Diffusion anisotropy in the corpus callosum. AJNR Am J Neuroradiol 2002; 23:803-08.

15. Maldjian JA, Laurienti PJ, Driskill L, **Burdette JH**. Multiple reproducibility indices for evaluation of cognitive functional MR imaging paradigms. AJNR Am J Neuroradiol 2002; 23:1030-37.

16. Laurienti PJ, Field AS, **Burdette JH**, Maldjian JA, Yen FY, Moody DM. Dietary caffeine consumption modulates fMRI measures. NeuroImage 2002; 17:751-57.

17. **Burdette JH**, Elster AD. Diffusion-weighted imaging of cerebral infarctions: Are higher b-valuebetter? J Comput Assist Tomogr 2002; 26:622-27.

18. **Burdette JH**. Functional MR imaging to evaluate sensory processing in dyslexia. Acad Radiol 2002; 9:1062-63.

19. Given CA II, **Burdette JH**, Elster AD, Williams DW III. Pseudo-subarachnoid hemorrhage: a potential imaging pitfall associated with diffuse cerebral edema. AJNR Am J Neuroradiol 2003; 24: 254-56.

20. Field AS, Laurienti PJ, **Burdette JH**, Moody DM. Dietary caffeine consumption and withdrawal: confounding variables in quantitative cerebral perfusion studies? Radiology 2003; 227:129-35.

21. Laurienti PJ, Wallace MT, Maldjian JA, Susi CM, Stein BE, **Burdette JH**. Cross-modal sensory processing in the anterior cingulate and medial prefrontal cortices. Hum Brain Mapp 2003; 19:213-23.

22. Maldjian JA, Laurienti PJ, Kraft, RA, **Burdette JH**. An automated method for neuroanatomic and cytoarchitectonic atlas-based interrogation of fMRI data sets. Neuroimage. 2003; 19(3):1233-39.

23. Laurienti PJ, Field AS, **Burdette JH**, Maldjian JA, Yen Y-F, Moody DM. Relationship between Caffeine-Induced Changes in Resting Cerebral Perfusion and Blood Oxygenation Level-Dependent Signal. AJNR Am J Neuroradiol 2003; 24:1607-11.

24. Hairston WD, Laurienti PJ, **Burdette JH**, Wallace MT. Multisensory enhancement of localization under conditions of myopia. Exp Brain Research 2003;152:404-08.

25. Laurienti PJ, **Burdette JH**, Maldjian JA. Separating neural processes using mixed event-related and epoch-based fMRI paradigms. J Neurosci Methods 2003; 131:41-50.

26. **Burdette JH**. Is CT perfusion ready for prime time? AJNR Am J Neuroradiol 2004; 25:3-4.

27. Maldjian JA, Laurienti PJ, **Burdette JH**. Precentral Gyrus Discrepancy in Digital Versions of the Talairach Atlas. Neuroimage 2004; 21:450-55.

28. Laurienti PJ, Kraft RA, Maldjian JA, **Burdette JH**, Wallace MT. Semantic Congruence is a Critical Factor in Multisensory Behavioral Performance. Exp Brain Res. 2004; 158(4):405-14.

29. Jeffery DR, Chepuri N, Durden D, **Burdette JH**. A pilot trial of combination therapy with mitoxantrone and interferon beta-1b using monthly gadolinium-enhanced magnetic resonance imaging. Mult Scler. 2005; 11(3):296-301.

30. Hairston WD, **Burdette JH**, Flowers DL, Wood FB, and Wallace MT. Altered temporal profile of visual-auditory multisensory interactions in dyslexia. Exp Brain Res. 2005; 166(3-4):474-80.

31. Hodges DA, Hairston WD, **Burdette JH**. Aspects of multisensory perception: the integration of visual and auditory information in musical experiences. Ann NY Acad Sci. 2005; 1060:175-85.

32. Laurienti PJ, **Burdette JH**, Maldjian JA, Wallace MT. Enhanced multisensory integration in older adults. Neurobiol Aging. 2006; (8):1155-63.

33. **Burdette JH**, Elster AD. Commentary on “Cerebral infarction diagnosis by computerized tomography: analysis and evaluation of findings”: How far have we really come? AJR Am J Roentgenol 2006; 186(3):611–12.

34. Hairston WD, Hodges DA, **Burdette JH**, Wallace MT. Auditory enhancement of visual temporal order judgment. Neuroreport. 2006; 17(8):791-95.

35. Casanova R, Ryali S, Baer A, Laurienti PJ, **Burdette JH**, Hayasaka S, Flowers L, Wood FB, Maldjian JA. Biological Parametric Mapping: A Statistical Toolbox for Multi-Modality Brain Image Analysis. Neuroimage 2006; 34: 137-43.

36. Toole JF, Flowers DL, **Burdette JH**, Absher J. A Pianist’s Recovery from Stroke. Archives of Neurology 2007; 64(8): 1184-88.

37. Hugenschmidt CE, Peiffer AM, Kraft RA, Casanova R, Deibler AR, **Burdette JH**, Maldjian JA, Laurienti PJ. Relating imaging indices of white matter integrity and volume in healthy older adults. Cerebral Cortx 2008; 18: 433-42.

38. Hairston WD, Hodges DA, Casanova R, Hayasaka S, Kraft RA, Maldjian JA, **Burdette JH**. Closing the Mind's Eye: Deactivation of Visual Cortex Related to Auditory Task Difficulty. NeuroReprt, 2008; 19(2); 151-54.

39. Deibler AR, Pollock JM, Kraft RA, Tan H, **Burdette JH**, Maldjian, JA. Arterial Spin Labeling in Routine Clinical Practice Part I: Technique and Artifacts, Am J Neuroradiol 2008; 29(7):1228-34.

40. Deibler AR, Pollock JM, Kraft RA, Tan H, **Burdette JH**, Maldjian JA. Arterial Spin Labeling in Routine Clinical Practice Part II: Hypoperfusion Patterns. Am J Neuroradiol 2008; 29(7):1235-41.

41. Deibler AR, Pollock JM, Kraft RA, Tan H, **Burdette JH**, Maldjian JA. Arterial Spin Labeling in Routine Clinical Practice Part III: Hyperperfusion Patterns. Am J Neuroradiol 2008; 29(8):1428-35.

42. Pollock JM, Deibler AR, West TG, **Burdette JH**, Kraft RA**,** Maldjian JA. Arterial Spin-Labeled Magnetic Resonance Imaging in Hyperperfused Seizure Focus: A Case Report. J Comput Assist Tomogr. 2008; 32(2):291-2. Erratum in: J Comput Assist Tomogr. 2008; 32(3):484.

43. Maldjian JA, Laurienti PJ, **Burdette JH**, Kraft RA. Clinical Implementation of Spin Tag Perfusion MRI. J Comput Assist Tomogr. 2008; 32(3):403-06.

44. Pollock JM, Whitlow CT, Deibler AR, Tan H, **Burdette JH**, Kraft RA, Maldjian JA. Anoxic injury-associated cerebral hyperperfusion identified with arterial spin-labeled MR imaging. AJNR Am J Neuroradiol. 2008; 29(7):1302-07.

45. Pollock JM, Deibler AR, **Burdette JH**, Kraft RA, Tan H, Evans AB, Maldjian JA. Migraine associated cerebral hyperperfusion with arterial spin-labeled MR imaging. AJNR Am J Neuroradiol. 2008; 29(8):1494-97.

46. Peiffer AM, Hugenschmidt CE, Maldjian JA, Casanova R, Srikanth R, Hayasaka S, **Burdette JH**, Kraft RA, Laurienti PJ. Aging and the Interaction of Sensory Cortical Function and Structure. Human Brain Mapping 2009; 30(1):228-40.

47. Pollock JM, Deibler AR, Whitlow CT, Tan H, Kraft RA, **Burdette JH**, Maldjian JA. Hypercapnia-Induced Cerebral Hyperperfusion: An Underrecognized Clinical Entity. AJNR Am J Neuroradiol 2009; 30(2):378-85.

48. Pollock JM, Whitlow CT, Tan H, Kraft RA**, Burdette JH**, Maldjian JA. Pulsed arterial spin-labeled MR imaging evaluation of tuberous sclerosis. AJNR Am J Neuroradiol 2009; 30(4):815-20.

49. Maldjian JA, Baer AH, Kraft RA, Laurienti PJ, **Burdette JH**. Fully automated processing of fMRI data in SPM: from MRI scanner to PACS. Neuroinformatics. 2009; 7(1):57-72.

50. Addicott MA, Yang LL, Peiffer AM, Burnett LR, **Burdette JH**, Chen MY, Hayasaka S, Kraft RA, Maldjian JA, Laurienti PJ. The effect of daily caffeine use on cerebral blood flow: how much caffeine can we tolerate? Journal/Hum Brain Mapp 2009; 30(10):3102-14.

51. Starr C, Sawaki L, Wittenberg G, **Burdette JH**, Oshiro Y, Quevedo A, Coghill R. Roles of the Insular Cortex in the Construction of the Pain Experience: Insights from Brain Lesions. J. Neurosci. 2009; 29(9):2684-94.

52. Tan H**,** Maldjian JA, Pollock JM, **Burdette JH**, Yang LY, Deibler AR, Kraft RA. A fast, effective filtering method for improving clinical pulsed arterial spin labeling MRI. J Magn Reson Imaging. 2009; 29(5):1134-39.

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46. Hairston WD, **Burdette JH**, Flowers DL, Wallace MT. Multisensory temporal interactions in the normal and dyslexic brain examined using fMRI. Program No. 617.21. Washington, DC: Society for Neuroscience, 2005.

47. Hodges DA, Hairston WD, Wallace MT, **Burdette JH**. Auditory and multisensory enhancement of localization ability in music conductors. Program No. 617.22. Washington, DC: Society for Neuroscience, 2005.

48. Peiffer AM, Hugenschmidt CE, Maldjian JA, Casanova R, Ryali S, **Burdette JH**, Kraft RA, Laurienti PJ. Aging and the interaction of sensory cortices. Program No. 617.18. Washington, DC: Society for Neuroscience, 2005.

49. **Burdette JH**, Laurienti PJ, Maldjian JA, Flowers DL,Kraft RA, Wood FB. Voxel-based morphometric differences between typical and dyslexic readers. Program No. 643.1. Washington, DC: Society for Neuroscience, 2005.

50. Hugenschmidt CE, Peiffer, AM, Maldjian JA, Casanova R, Ryali S, **Burdette JH**, Kraft RA, Laurienti PJ. Relationships between age-related changes in white matter concentration and fractional anisotropy. Neuroimage, 2006;31, Supplement 1, S81.

51. Burnett LR, Kraft RA, Maldjian JA, **Burdette JH**, Chen MY, Yang LL, Laurienti PJ. Caffeine induces BOLD signal decreases in subjects without pre-scan withdrawal. Neuroimage, 2006;31, Supplement 1, S66.

52. Casanova R, Ryali S, Baer A, Laurienti PJ, Hayasaka S, **Burdette JH**, Wood FB, Maldjian JA. The Biological Parametric Mapping Toolbox. Neuroimage, 2006;31, Supplement 1, S93.

53. **Burdette JH**, Laurienti PJ, Milner LD, Flowers DL, Maldjian JA, Wood FB. Is dyslexia a manifestation of abnormal deactivation? Neuroimage, 2006; 31, Supplement 1, S123.

54. Hairston WD, **Burdette JH**, Hodges DA. Neural mechanisms underlying multisensory processing in conductors. International Conference on Music Perception and Cognition, Bologne, Italy 2006.

55. Hairston WD, **Burdette JH**, Flowers D, Wallace MT, Maldjian JA. The effect of grey matter on functional differences in cross-modal processing in dyslexia. Program No. 137.5. 2006 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2006. Online

56. Casanova R, Ryali S, Bare A, Peiffer AM, Hayasaka S, **Burdette JH**, Maldjian JA. Biological Parametric Mapping. Program No. 2797. 2006 Abstract, ISMRM. Scientific Conference, Seattle, Washington, 2006.

57. Hugenschmidt CE, Peiffer AM, Casanova R, Maldjian JA, **Burdette JH**, Laurienti PL. Preservation of Default Mode Functioning in Healthy Aging Adults. Abstract, Human Brain Mapping Conference, Chicago, 2007.

58. Peiffer AM, **Burdette JH**, Laurienti PL, Flowers L, Maldjian JA, Milner L, Wood F. Evaluating Dyslexia Across Multiple Speech Conditions Using a Novel fMRI Meta-Analysis Technique. Abstract, Human Brain Mapping Conference, Chicago, 2007.

59. Hairston WD, **Burdette JH**, Maldjian JA, Mace S, Hodges D. Cross-modal deactivation related to task difficulty: non-musicians versus conductors. Annual Meeting of Organization for Human Brain Mapping, June 2007, Chicago, Il. *Selected for oral presentation.

60. Hairston WD, Hodges DA, Hussain HH, **Burdette JH**. Closing the mind's eye to listen: exploring visual cortical deactivation related to auditory task difficulty. Annual Meeting of the Society for Neuroscience, November 2007, San Diego, CA

61. Addicott MA, Peiffer AM, Yang LL, Kraft RA, Maldjian JA, **Burdette JH**, Burnett LR, Chen MY, Laurienti PJ. The Effects of Caffeine on Cerebral Perfusion in Withdrawal and Native States. Abstract, Human Brain Mapping Conference, Chicago, 2007.

62. Yang LL, Peiffer AM, Addicott MA, Kraft RA, Maldjian JA, **Burdette JH**, Burnett LR, Chen MY, Laurienti PJ. BOLD Signal Decreases Following Caffeine Challenge in Individuals Who Intake High Daily Doses of Caffeine. Abstract, Human Brain Mapping Conference, Chicago, 2007.

63. Starr C, Sawaki L, Wittenberg G**, Burdette JH**, Oshiro Y, Quevedo A, Coghill R. Integrity of Pain Perception After Lesions of the Insular Cortex. Abstract, Human Brain Mapping Conference, Chicago, 2007.

64. Addicott MA, Yang LL, Casanova RL, Peiffer AM, Maldjian JA, **Burdette JH**, Burnett LR**,** Laurienti PJ. The effects of chronic caffeine use on the temporal dynamics of the BOLD signal. Published in the 2008 Human Brain Mapping conference program, Melbourne Australia.

65. Yang LL, Addicott MA, Peiffer AM, Kraft RA, Maldjian JA, **Burdette JH**, Burnett LR, Chen MY, Laurienti PJ. Caffeine is not a universal BOLD contrast booster. 2008 Abstract, Human Brain Mapping Conference, Melbourne, Australia. 2008.

66. Hairston WD, Casanova R, **Burdette JH**, Wood FB, Maldjian JA. Cross-modal temporal processing in dyslexia assessed with Biological Parametric Mapping. Annual Meeting of Organization for Human Brain Mapping, June 2008, Melbourne, Australia.

67. Shear SK, Hairston WD, Wood F, Flowers DL, Maldjian JA, Laurienti PJ, **Burdette JH**. Measuring the Neural Correlates of Dyslexia with Diffusion Tensor Imaging. Linguistics Society of America Summer Meeting, July 2008, Ohio State University, Columbus, Ohio.

68. Johnson AJ, Simonds J, Anvery A, Chen MYM, **Burdette JH**, Zapadka ME, Geer CP, Ellis TL, Tatter SB, Chan MD, McMullen KP, Lesser GJ. Does MR Perfusion Imaging Affect Treatment Decisions for Brain Tumor Patients? A Prospective Study. American Society of Neuroradiology 48th Annual Meeting, May 2010, Boston, MA.

69. Joyce K, Laurienti PJ, **Burdette JH**, Hayasaka S. A New Measure of Centrality for Brain Networks. Organization for Human Brain Mapping Conference, Barcelona, Spain. June 2010.

70. Morgan A, Laurienti PJ, Espeland M, Rejeski W, Jennings J, Katula J, Telesford Q, Vechlekar C, **Burdette JH**. Exercise-induced increased network connectivity in the elderly: walking improves brain efficiency. Organization for Human Brain Mapping Conference, Barcelona, Spain. June 2010.

71. Telesford QT, Joyce KE, Hayasaka S, **Burdette JH**, Laurienti PJ. It's not a small-word after all: Reassessing the ubiquity of small-world networks. Biomedical Engineering Society Annual Meeting, Austin, TX, USA. October 2010.

72. Presley T, Morgan A, Bechtold A, Clodfelter W, Dove RW, Jennings JM, Kraft RA, King SB, Laurienti PJ, Rejeski JW, **Burdette JH**, Kim-Shapiro DB, Miller GD. Acute Effect of a High Nitrate Diet on Brain Perfusion in Older Adults. 17th Annual Meeting for Society for Free Radical Biology and Medicine, Caribe Royal Hotel and Conference Center, Orlando Florida, November 2010.

73. Telesford QT, Joyce KE, Hayasaka S, **Burdette JH**, Laurienti PJ. Reassessing the ubiquity of small-world networks. Society for Neuroscience, San Diego, CA, USA. November 2010.

74. Coker LH, Knopman DS, Catellier DJ, Shibata D, **Burdette JH,** Mosley TH. Brain MRI predictors of global and domain specific cognitive function at 10 years follow up: ARIC Brain MRI Study. International Conference on Alzheimer's Disease, Paris, France. July 2011.

75. Hayasaka S, Joyce KE, Telesford QK, **Burdette JH**, Laurienti PJ. Universal power law scaling of self-organized networks. The International School and Conference on Network Science, Budapest, Hungary. June 2011.

76. Telesford QT, Joyce KE, Hayasaka S, **Burdette JH**, Laurienti PJ. Is it Really a Small World after all: Reassessing the ubiquity of small-world networks. The International School and Conference on Network Science, Budapest, Hungary. June 2011.

77. Wilkins RW, Steen M, Laurienti PJ, **Burdette JB**, Hodges DA. The Effects of Music on the Brain: Investigating Music Preference Using Network Science Methods. The International School and Conference on Network Science, Budapest, Hungary. June 2011.

78. Telesford DK, Joyce KE, Hayasaka S, **Burdette JH**, Laurienti PJ. The ubiquity of small-world networks. Organization for Human Brain Mapping, Quebec City, Canada. June 2011.

79. Smith M, Marsh A, Dagenbach D, Pauca P, Jennings J, **Burdette JH**, Laurienti PJ, Rejeski WJ. Brain Boot Camp: Multi-Sensory Training to Enhance Brain Health and Functional Abilities in Aging. URECA Center Fourth Annual Undergraduate Research Day. September 2011.

80. **Burdette JB**, Laurienti PJ, Morgan AR, Williamson D, Rejeski WJ. The Power of Food Scale Moderates Brain Network Connections During Food Restraint. Obesity Society 2011 Annual Scientific Meeting, Orlando, FL, USA. October 2011.

81. Moussa MN, Porrino L, Hayasaka S, **Burdette JH**, Laurienti PJ. Rigid Network Structure Underlies Cognitive Inflexibility in Mature Adults. CompleNet 2012, Melbourne, FL. March 2012.

82. Blair CV, Laurienti PJ, **Burdette JH**. Cognitive-related alterations in network topology and brain function. Aging Cognition Conference, Atlanta, GA, USA. April 2012.

83. Wilkins R, Laurienti PJ, Hodges DA, **Burdette JH**. From Beethoven to Eminem: Music and Network Science. NetSci. Chicago, IL, USA. June 2012.

84. Telesford QT, **Burdette JH**, Laurienti PJ. Understanding dynamics in time-dependent networks: Graph analysis in the adult interactome. NetSci. Chicago, IL, USA. June 2012.

85. Voss MW, Wong C, Szabo AN, Baniqued P, **Burdette JH**, McAuley E, Laurienti PJ, Kramer AF. The relationship of aerobic fitness to brain network architecture in healthy older adults. Annual Meeting of the Gerontological Society of America, San Diego, CA, USA. November 2012.

86. Wilkins RW, Laurienti PJ, Steen M, **Burdette JH**, Hodges DA. Network Science: A New Method for Investigating the Complexity of Musical Experiences in the Brain. The Improvising Brain, Georgia State University, Atlanta, GA, USA. April 2013.

87. Wilkins RW, Hodges DA, Laurienti PJ, Steen M, **Burdette JH**. The Effects of Music on the Brain: Investigating Music Preference Using Network Science Methods. The Improvising Brain, Georgia State University, Atlanta, GA, USA. April 2013.

88. Wilkins RW, Hodges DA, Laurienti PJ, **Burdette JH**. Network Science, Music and the Brain: Community Structure Shows Potential for Music to Affect Learning and Memory. NetSciEd2: Satellite Symposium on Network Science in Education, Copenhagen, Denmark. June 2013.

89. Soriano C, Batson G, Laurienti PJ, **Burdette JH**, Migliarese S, Hristov N. Effects of group-delivered improvisational dance on balance in adults with middle stage Parkinson disease: a two-phase pilot with fMRI case study. 3rd World Parkinson Congress, Montréal, Canada. October 2013.

90. Winkler A, Paolini B, Laurienti PJ, **Burdette JH**. Your Brain on Caffeine. 29th Annual Medical Student Research Day Wake Forest School of Medicine, Winston Salem, NC, USA. October 2013.

91. Stanley ML, Dagenbach D, Lyday RG, **Burdette JH**, Laurienti PJ. Global and Regional Shifts in Module Properties with Increasing Working Memory Load. 22nd Annual Cognitive Neuroscience Annual Conference. San Francisco, CA, USA March 2015

92. Winkler A, Paolini B, Laurienti PJ, **Burdette JH**. Your Brain on Caffeine. 168th Annual Meeting of the American Psychiatric Association. Toronto, Canada. May 2015.

93. Mayhugh RE, Petrie MR, Rejeski WJ, Lyday RG, **Burdette JH**, Laurienti PJ. Stress and Alcohol Abstinence In Daily Social Drinkers: Effects On Default Mode Network Community Structure. Organization for Human Brain Mapping. Honolulu, HI, USA. June 2015.

94. Basu S, Presley TD, Berry MJ, Eggebeen J, **Burdette JH**, Miller GD, Kitzman DW, Kim-Shapiro DK. Use of Dietary Nitrate to Improve Functional Health in Aging Associated Diseases. Wake Forest University Aging Re-Imagined Symposium. March 2016.

95. Mayhugh RE, Moussa MN, Lyday RG**, Burdette J**H, Laurienti PJ. Moderate Alcohol Consumption Lifestyle In Older Adults Is Associated With Altered Central Executive Network Community Structure. Research Society and Alcoholism. New Orleans, LA, USA. June 2016.

96. Beavers KM, Ambrosius WT, Rejeski WJ, **Burdette JH**, Walkup MP, Marsh AP. Effect of Exercise Modality during Weight Loss on Body Mass and Composition in Older Obese Adults. Gerontological Society of America's 69th Annual Scientific Meeting. New Orleans, LA, USA. November 2016.

97. Mokhtari F, Paolini BM, **Burdette JH**, Marsh AP, Rejeski WJ, Laurienti PJ. Baseline Gray- and White Matter Volume Predict Successful Weight Loss in the Elderly. Obesity Week. New Orleans, LA, USA November 2016.

98. Mayhugh RE, Moussa ME, Lyday RG, **Burdette JH**, Laurienti PJ. Moderate Alcohol Consumption Lifestyle in Older Adults is Associated with Altered Central Executive Network Community Structure. Research Society on Alcoholism (RSA), New Orleans, LA, USA. June 2016.

99. Mokhtari F, **Burdette JH**, Marsh AP, Rejeski WJ, Laurienti PJ. Functional Brain Networks Prospectively Predict Intentional Weight Loss is Older Adults. NC Cognition Conference. Greensboro, NC, USA. March 2017.

100. Mayhugh, R.E., **Burdette JH**, Lyday, R.G, Laurienti, P.J. The Effect of Alcohol Abstinence on Functional Connectivity in Moderate-Heavy Alcohol Consumers. 2017 Organization for Human Brain Mapping, Vancouver, Canada. June 2017.

101. Mokhtari F, Zhu Y, **Burdette JH**, Wu G, Rejeski WJ, Laurienti PJ. Using Higher Order Singular Value Decomposition to Reduce the Dimensionality of fMRI Dynamic Connectivity Tensors. Workshop on Brain Dynamics and Neurocontrol Engineering, Washington University, St. Louis, MO, USA. June 2017.

102. Schoen J, Geer CP, West TG, **Burdette JH**, Lipford M, Sachs JR. Do CT Dose Report Metrics Correlate with Energy Consumption? 2022 Association of University Radiologists 70th Annual Meeting, Phoenix, AZ, USA. March 2022

103. Lipford M, Schoen J, Kim J, West T, **Burdette JH**, Geer C, Sachs J, Whitlow C. Which Dual Energy CT Method Uses Less Energy? American Association of Physicists in Medicine 64th Annual Meeting. Washington, D.C. July 2022.

104. Lavigne SK, Alain, C., **Burdette JH**, Mohsen B., Laurienti PJ, Lyday RL, Thaut MH. Altered Basal Ganglia Topology Associated with Auditory-Motor Synchronization. NeuroMusic Conference, McMaster University, Hamilton, Canada, November 2022.

105. Peterson H, Lyday RG, Tomlinson C, Rejeski WJ, Simpson SL, **Burdette JH**, Laurienti PJ. Alterations in functional connectivity within the Default Mode, Salience, and Motor networks during alcohol cue viewing following alcohol abstinence. Society for Neuroscience, San Francisco, CA, USA, November 2022.

106. Lavigne SK, Alain, C., **Burdette JH**, Mohsen B., Laurienti PJ, Lyday RL, Thaut MH. Altered Basal Ganglia Topology Associated with Auditory-Motor Synchronization. Collaborative Program in Neuroscience (CPIN) Research Day, University of Toronto, Canada, May 2023.

107. Lavigne SK, Alain, C., **Burdette JH**, Mohsen B., Laurienti PJ, Lyday RL, Thaut MH. *Altered* Basal Ganglia Topology Associated with Auditory-Motor Synchronization. Organization for Human Brain Mapping (OHMB) Annual Meeting, Montreal, Canada, July 2023.

108. Shappell HM, Laurienti PJ, Lyday RG, Rejeski WJ, **Burdette JH**. Using Dynamic Networks to Study the Brain: New Methods and an Application to a Weight-Loss Study. Translation and LHS Scholar Showcase, Winston Salem, NC, USA March 2024

109. Lavigne SK, Alain, C., **Burdette JH**, Mohsen B., Laurienti PJ, Lyday RL, Thaut MH. Altered Basal Ganglia Topology Associated with Auditory-Motor Synchronization in Parkinson's Disease. The 13th World Congress for NeuroRehabilitation (WCNR), Vancouver, Canada, May 2024.

MISCELLANEOUS:

1. **Burdette JH**. The making of colored concrete. Handbook and Transactions of the Tennessee Junior Academy of Science 1982-1983.

2. **Burdette JH**. Injury and cost comparison of restrained and unrestrained motor vehicle crash victims. Performed with David Reath, MD, and Jackie Kirby, RN. University of Tennessee Medical Center, Knoxville, 1987.

3. **Burdette JH**. The theory of modal analysis and its use in the determination of a head injury criterion. Senior thesis in Biomedical Engineering at Duke University (Received Graduation with Distinction in Biomedical Engineering). Mentor: Dr. James McElhaney, Professor and Chairman of Biomedical Engineering at Duke University, 1988-1989.

4. **Burdette JH**. Karlstad M. The effectiveness of acute enteral administration of short-chain fatty acids on the gastrointestinal tract following trauma. Performed under the direction of Dr. Michael Karlstad, The University of Tennessee Medical Center, Knoxville, Summer 1990.

5. **Burdette JH**. Minoshima S, Vander Borght T, Tran DD, Kuhl DE. Improved accuracy in visual interpretation of PET images using three-dimensional stereotactic surface projections in Alzheimer's disease. Parkinson/Alzheimer Digest 1996; 19-21.

6. **Burdette JH**. Photo Page: Pumpkinheads. AJR Am J Roentgenol 1999; 173:910.

INVITED PRESENTATIONS:

1. **Burdette JH**, Spine Techniques and Pathology, Department of Anesthesiology, WFU School of Medicine, Lecturer, 1998

2. **Burdette JH**, Spine Techniques and Pathology, Department of Anesthesiology, WFU School of Medicine, Lecturer, 1999

3. **Burdette JH**, Imaging of Brain Tumors, Department of Radiation Oncology, WFU School of Medicine, Lecturer, 08/10/1999

4. **Burdette JH**, The Future is now for the Private Practice Radiologist, Hilton Head Island, SC, Lecturer, 06/26/2000

5. **Burdette JH**, Imaging of Cerebral Infarction, Hilton Head Island, SC, Lecturer, 06/26/2000

6. **Burdette JH**, Stroke Imaging: Technical Developments, Hilton Head Island, SC, Lecturer 06/25/2001

7. **Burdette JH**, Stroke Imaging: Clinical Applications, Hilton Head Island, SC, Lecturer, 06/25/2001

8. **Burdette JH**, Everyday Applications of Advanced MR Imaging of the CNS: Part I, Hilton Head Island, SC, Lecturer, 06/25/2001

9. **Burdette JH**, Everyday Applications of Advanced MR Imaging of the CNS: Part II, Hilton Head Island, SC, Lecturer, 06/25/2001

10. **Burdette JH**, DWI in Stroke Imaging, ARRS Annual Meeting, Atlanta, GA, Lecturer, 04/01/2002

11. **Burdette JH**, Advanced Imaging Seminars, Vancouver, British Columbia, Canada, Lecturer, 05/01/2002

12. **Burdette JH**, Alteration of Multisensory Processing in Dyslexia/Oral Presentation in symposium, Mount Grace, South Africa. Brain and Languages: The Scientific Challenge to Reading Education, Lecturer, 10/03/2002

13. **Burdette JH**, Functional Task Force, Chicago, Ill., Lecturer, 12/06/2002

14. **Burdette JH**, Stroke Imaging: Basic, Curaçao, Netherlands Antilles, Lecturer, 01/25/2003

15. **Burdette JH**, Stroke Imaging: Advanced, Curaçao, Netherlands Antilles, Lecturer, 01/25/2003

16. **Burdette JH**, Neuroradiology in the ER: Don't Miss Cases, Curaçao, Netherlands Antilles, Lecturer, 01/25/2003

17. **Burdette JH**, Carotid MR Angiography, Curaçao, Netherlands Antilles, Lecturer, 01/25/2003

18. **Burdette JH**, Physiologic Neuroimaging, Curaçao, Netherlands Antilles, Lecturer, Neuroscientists, Language Experts, 01/25/2003

19. **Burdette JH**, AFIP Lectures, Diffusion MRI; Advanced MRI Techniques,Washington DC, Lecturer, 02/02/2003

20. **Burdette JH**, Alteration of Cross-Modal Sensory Processing in Dyslexia/GERRAF Retreat Las Vegas, NV, Lecturer, Clinical Researchers and Mentors, 02/05/2003

21. **Burdette JH**, fMRI: A Powerful Tool to Evaluate the Brain/College Course Reynolda Campus at Wake Forest Lecturer,College Undergraduates in Neuroscience Course, 03/06/2003

22. **Burdette JH**, fMRI,White Sulphur Springs, West Virginia ,Lecturer, 03/22/2003

23. **Burdette JH**, Diffusion Imaging of the Brain, White Sulphur Springs, West Virginia, Lecturer, 03/22/2003

24. **Burdette JH**, fMRI/BOLD: Physics Basics, ISMRM, Toronto, Canada, Lecturer, 05/10/2003

25. **Burdette JH**, Do you see what I hear? Studying Dyslexia with fMRI and Behavioral Measures/Seminar, fMRI Seminar Series; ANSIR Laboratory, Lecturer, 07/02/2003

26. **Burdette JH**, New Horizons in Stroke Imaging/CME, Hilton Head, SC, Lecturer, Practicing Radiologist and Other Physicians, 10/30/2003

27. **Burdette JH**, Hilton Head Radiology Quiz (Parts 1-4)/CME, Hilton Head, SC, Lecturer, Practicing Radiologist and Other Physicians, 10/30/2003

28. **Burdette JH**, A Primer on Diffusion Imaging of the Brain/CME, Hilton Head, SC, Lecturer, Practicing Radiologist and Other Physicians, 10/30/2003

29. **Burdette JH**, Neuroimaging at 3T: Preliminary Experience/CME, Hilton Head, SC, Lecturer, 10/31/2003

30. **Burdette JH**, MR Spectroscopy: Clinical Applications/CME, Hilton Head, SC, Lecturer, 10/31/2003

31. **Burdette JH**, Clinical Applications of Functional MRI/CME, Hilton Head, SC, Lecturer, 10/31/2003

32. **Burdette JH**, Altered Auditory-Visual (Multisensory) Integration in Dyslexia: an fMRI Study/Scientific Session, RSNA; Chicago Illinois, Presenter, Selected for Press Release, 12/03/2003

33. **Burdette JH**, Dyslexia: fMRI and Behavioral Measures/Oral Presentation at Scientific Retreat, GERRAF Retreat; Dallas, TX, Lecturer, 02/03/2004

34. **Burdette JH**, New Horizons in Stroke Imaging/Public Outreach, SciWorks, W-S, NC, Lecturer, 03/02/2004

35. **Burdette JH**, New Horizons in Stroke Imaging/Wake Forest Radiology Meeting, Greenbrier; White Sulphur Springs, WV, Lecturer, 03/11/2004

36. **Burdette JH**, A Primer on Diffusion Imaging of the Brain/Wake Forest Radiology Meeting, Greenbrier; White Sulphur Springs, WV, Lecturer, 03/12/2004

37. **Burdette JH**, Clinical Applications of Functional MRI/Wake Forest Radiology Meeting, Greenbrier; White Sulphur Springs, WV, Lecturer, 03/12/2004

38. **Burdette JH**. Stroke Imaging. Clinical Neuroscience Graduate Class (NUSC 703). Spring 2004

39. **Burdette JH**, Dyslexia: fMRI and Behavioral Measures/Oral Presentation at Scientific Meeting, AUR Meeting; San Francisco, CA, Lecturer, 04/24/2004

40. **Burdette JH**, Functional MRI Basics/Review Course, ASNR, Seattle, WA, Lecturer, 06/10/2004

41. **Burdette JH**, Function MRI/Wake Forest Radiology Summer Meeting, Hilton Head, SC, Lecturer, 06/21/2004

42. **Burdette JH**, Stroke Imaging/Wake Forest Radiology Summer Meeting, Hilton Head, SC, Lecturer, 06/21/2004

43. **Burdette JH**, Advanced MRI Techniques/Wake Forest Radiology Summer Meeting, Hilton Head, SC, Lecturer, 06/22/2004

44. **Burdette JH**, Dyslexia: fMRI and Behavioral Measures/Outreach Program, Best Health at Hanes Mall; W-S, NC, Lecturer, 07/13/2004

45. **Burdette JH**, Alteration of Multisensory Processing in Dyslexia/Oral Presentation, Wake Forest University School of Medicine, Presenter, 09/28/2004

46. **Burdette JH**, Diffusion MRI: A Primer/Neurology Resident and Faculty Lecture, Department of Neurology, WFU School of Medicine, Lecturer, 12/10/2004

47. **Burdette JH**, Multisensory Processing in Dyslexia/GERRAF Program, Indian Wells, CA, Lecturer and Panel Discussion, 01/17/2005

48. **Burdette JH**, Imaging the Brain/Part of Biology Course, UNC School of the Arts , Lecturer, 02/17/2005

49. **Burdette JH**, The Integration of Visual and Auditory Information Processing in Music Experiences, Leipzig, Germany; Neurosciences of Music Symposium, 05/06/2005

50. **Burdette JH**, Stroke Imaging: Now and the Future/Wake Forest Radiology Summer Meeting, Hilton Head, SC, Lecturer, 06/20/2005

51. **Burdette JH**, "New" Advances in Neuroradiology MRI/Wake Forest Radiology Summer Meeting, Hilton Head, SC, Lecturer, 06/20/2005

52. **Burdette JH**, Case-Based Review of Neuroradiology: Pediatric Spine/Review Course, RSNA; Chicago Illinois, Lecturer, 11/28/2005

53. **Burdette JH**, Stroke Imaging: What should we do and why?/CME, Dominical Republic, Lecturer, 01/26/2006

54. **Burdette JH**, Practical Approach to Advanced Neuro MRI Techniques/CME, Dominical Republic, Lecturer, 01/27/2006

55. **Burdette JH**, Neuroradiology: Cases and Pearls in Pediatric Spine/Resident Core Curriculum, Meads Hall: WFU School of Medicine, Lecturer, 01/30/2006

56. **Burdette JH**, Of Conductors and Cats/Oral Presentation, Brain Awareness Symposium; Babcock Auditorium, Lecturer, 03/17/2006

57. **Burdette JH**, Is Dyslexia a Manifestation of Abnormal Deactivation/Oral Presentation, Human Brain Mapping Meeting; Florence, Italy, Poster Session, 06/01/2006

58. **Burdette JH**, Neuroradiology in the ER/CME, Hilton Head, SC, Lecturer, 06/29/2006

59. **Burdette JH**, Advanced Neuro MRI/CME, Hilton Head, SC, Lecturer, 06/30/2006

60. **Burdette JH**, Unknown Neuroradiology Cases/CME, Hilton Head, SC, Lecturer, 06/30/2006

61. **Burdette JH**, The Merging of the Senses in Dyslexia/Grand Rounds--Whitehouse Lecture, The University of Michigan; Ann Arbor, Lecturer, 09/13/2006

62. **Burdette JH**, Diffusion MRI Basics and Clinical Applications/Noon Conference, Univ. of Michigan, Ann Arbor, Lecturer, 09/13/2006

63. **Burdette JH**, fMRI Basics and Clinical Applications/Noon Conference, Univ. of Michigan, Ann Arbor, Lecturer, 09/13/2006

64. **Burdette JH**, The Brain/Oral Presentation, Montessori School of Winston-Salem, Lecturer, 09/21/2006

65. **Burdette JH**, Diffusion MRI Basics and Clinical Applications/Noon Conference Lecture, Wake Forest Univ; Meads Hall, Lecturer, 10/09/2006

66. **Burdette JH**, fMRI Basics and Clinical Applications/Noon Conference Lecture, Wake Forest Univ; Meads Hall, Lecturer, 10/10/2006

67. **Burdette JH**, Case-Based Review of Neuroradiolgy: Pediatric Spine/Review Course, RSNA; Chicago Illinois, Lecturer, 12/11/2006

68. **Burdette JH**, Wait, Wait, Don't Tell Me/Panel Member, RSNA; Chicago Illinois, Panel member, 12/04/2006

69. **Burdette JH**, Brain Imaging/College Lecture, UNC School of the Arts, Lecturer, 03/01/2007. Attended by Chancellor Mauceri

70. **Burdette JH**, Recent Advances in Neuro MRI/CME Oral Presentation, Hilton Head, SC, Lecturer, 06/25/2007

71. **Burdette JH**, MR Contrast Today: Current Issues with NSF/CME Oral Presentation, Hilton Head, SC, Lecturer, 06/27/2007

72. **Burdette JH**, Neuro Cases I Find Difficult/CME Oral Presentation, Hilton Head, SC, Lecturer, 06/28/2007

73. **Burdette JH**, Communication Seminar: How to give a talk/Oral Presentation at Orientation, BME Grad Student Orientiation, Lecturer, 08/01/2007

74. **Burdette JH**, Case of the Day/CME Oral Presentation, Greenbrier; White Sulphur Springs, WV, Lecturer, 08/11/2007

75. **Burdette JH**, Advanced MRI in Clinical Work/CME Oral Presentation, Greenbrier; White Sulphur Springs, WV, Lecturer, 08/11/2007

76. **Burdette JH**, Pediatric Spine Pearls/CME Oral Presentation, Greenbrier; White Sulphur Springs, WV, Lecturer, 08/12/2007

77. **Burdette JH**, MR Contrast Today: Current Issues with NSF/CME Oral Presentation, Greenbrier; White Sulphur Springs, WV, Lecturer, 08/12/2007

78. **Burdette JH**, Current Issues in Contrast Media; Gadolinium Based Contrast Agents; Summary of Existing Knowledge on NSF, Greensboro, NC; Grandover Resort, Lecturer , 08/24/2007

79. **Burdette JH**, Neuro Imaging at My Hospital/Oral Presentation, GE; Waukesha, WI, Lecturer, 11/06/2007

80. **Burdette JH**, Current Issues in Contrast Media; Gadolinium Based Contrast Agents; Summary of Existing Knowledge on NSF, South Bend, IN; Windsor Park Conf. Center, Lecturer, 11/06/2007

81. **Burdette JH**, Current Issues in Contrast Media; Gadolinium Based Contrast Agents; Summary of Existing Knowledge on NSF, Atlanta, GA, Lecturer, 11/13/2007

82. **Burdette JH**, MRI Brain Perfusion in Clinical Practice/ Neuroscience Luncheon Tutorial, Watlington Hall: WFU School of Medicine, Lecturer, 02/22/2008

83. **Burdette JH**, Imaging: Tools of Neuroscience for an Inside Look/Oral Presentation, UNCG Symposium: Communication Disorders: Applications of Neuroscience and Music, Lecturer, 03/07/2008

84. **Burdette JH**, Literacy Development and Disorders/Oral Presentation and Moderator, UNCG Symposium: Communication Disorders: Applications of Neuroscience and Music, Lecturer and Moderator, 03/07/2008

85. **Burdette JH**, Adult Brain/ASNR Maintenance of Certification CME Lecture, ASNR Meeting; New Orleans, Lecturer, 06/04/2008

86. **Burdette JH**, Communication Seminar: How to give a talk/Oral Presentation at Orientation, BME Grad Student Orientiation, Lecturer, 08/01/2008

87. **Burdette JH**, Imaging: Tools of Neuroscience/Oral Presentation in Graduate Course, UNCG Graduate Course, Lecturer, 10/22/2008

88. **Burdette JH**, Imaging the Sensational Brain/College lecture, UNC School of the Arts, Lecturer, 10/28/2008

89. **Burdette JH**, Neuroimaging of Music/Luncheon talk, Wake Forest Univ. Medical School, Lecturer, 11/12/2008

90. **Burdette JH**, Arterial Spin Labeling (ASL) MR Perfusion Imaging/Review Course Oral Presentation, RSNA; Chicago Illinois, Lecturer/Panel member, 12/01/2008

91. **Burdette JH**, Imaging the Renally-Impaired Patient in the Age of NSF/CME Oral Presentation, Big Sky, MT; Univ. of Wisconsin Winter Meeting, Lecturer, 01/28/2009

92. **Burdette JH**, Pediatric Spine Pearls/CME Oral Presentation, Big Sky, MT; Univ. of Wisconsin Winter Meeting, Lecturer, 01/28/2009

93. **Burdette JH**, Neuro MRI Part II: Cases/CME Oral Presentation, Big Sky, MT; Univ. of Wisconsin Winter Meeting, Lecturer, 01/28/2009

94. **Burdette JH**, Everyday Applications of the Latest in Neuro MRI/CME Oral Presentation, Big Sky, MT; Univ. of Wisconsin Winter Meeting, Lecturer, 01/28/2009

95. **Burdette JH**, Imaging the Renally Impaired Patient in the Age of NSF, Wake Forest University, Meads Hall, Lecturer, 03/09/2009

96. **Burdette JH**, Your Brain on Music! /Symposium Oral Presentation with Peter Perret and Barbara Lister-Sink, Brain Awareness Symposium at Salem College, Lecturer, 03/13/2009

97. **Burdette JH**, The Spectrum of Research in Translational Science: Case Study in Obesity Research, Reynolda Campus: Benson Center, Lecturer, 06/10/2009

98. **Burdette JH**, Neuroradiology Jeopardy/Oral Presentation, RSNA; Chicago Illinois, Lecturer/Moderator, 11/30/2009

99. **Burdette JH**, Arterial Spin Labeling (ASL) in Stroke/Oral Presentation and Panel Discussion, RSNA; Chicago Illinois, Lecturer/Panel member, 12/02/2009

100. **Burdette JH**, Complex Musical Brain Networks: Six Degrees of Mozart and the Beatles, International Society for Clinical Neuromusicology (CNM); First World Congress of CNM, Salzburg, Austria, Lecturer, 08/28-29/2010

101. **Burdette JH**, Complex brain networks: How close or how far? “Gehirn und Welt” or Brain and the World Symposium; Duesseldorf, Germany, Keynote speaker, 10/9/2010

102. **Burdette JH**, ASL Review/Oral Presentation, RSNA; Chicago Illinois, Lecturer, 12/01/2010

103. **Burdette JH**, 21st Century Science: Studies of the Complex Human Being, UNC School of the Arts ARTStem Program, Lecturer, 12/14/2010

104. **Burdette JH**, MRI Contrast Agents in the Age of NSF, Wake Forest University School of Medicine Winter Radiology Review, Puerto Vallarta, Mexico, Lecturer, 01/31/2011

105. **Burdette JH**, Complex Functional Brain Networks, Wake Forest University School of Medicine Winter Radiology Review, Puerto Vallarta, Mexico, Lecturer, 01/31/2011

106. **Burdette JH**, Neuroradiology Jeopardy I, Wake Forest University School of Medicine Winter Radiology Review, Puerto Vallarta, Mexico, Lecturer, 02/04/2011

107. **Burdette JH**, Neuroradiology Jeopardy II, Wake Forest University School of Medicine Winter Radiology Review, Puerto Vallarta, Mexico, Lecturer, 02/04/2011

108. **Burdette JH**, Is Brain Fitness the Fountain of Youth? Dean’s Forum, Bridger Field House, Wake Forest University, 2/17/2011

109. **Burdette JH**, 21st Century Science: Studies of the Complex Human Being, Wake Forest University Undergraduate Students, Innovation and Creativity Lecturer, 02/22/2011

110. **Burdette JH**, Complex Musical Brain Networks, The Western North Carolina Chapter of the Society for Neuroscience, Wake Forest University School of Medicine, Lecturer, 4/26/2011

111. **Burdette JH**, Does Imaging Help to Understand How the Brain Handles Music? Second World Congress on Clinical Neuromusicology, Vienna, Austria , Lecturer, 12/03/2011

112. **Burdette JH**, Does Imaging Help Us Understand How the Brain Handles Music, Science Café, Winston Salem, NC, 04/17/2012

113. **Burdette JH**, Brain Perfusion MR Imaging in Routine Clinical Practice, Wake Forest School of Medicine Summer Radiology Review, Isle of Palms, SC 06/21/2012

114. **Burdette JH**, Jeopardy: Case-based Review of Neuroradiology, Wake Forest School of Medicine Summer Radiology Review, Isle of Palms, SC 06/21/2012

115. **Burdette JH**, Stroke Imaging in 2012, Wake Forest School of Medicine Summer Radiology Review, Isle of Palms, SC 06/22/2012

116. **Burdette JH**, The Sensational Brain, UNC School of the Arts, Winston Salem, NC 11/6/2012

117. **Burdette JH**, Panel Discussion, Renaissance Weekend, Charleston, SC 12/30/2012

118. **Burdette JH**, The Complex Brain, Wake Forest University Undergraduate Students, Neuroscience Program, Winston Salem, NC 02/14/2013

119. **Burdette JH**, The Complex Brain, Keynote speaker for the University of Tennessee College of Medicine Alumni Weekend, Memphis, TN 08/17/2013

120. **Burdette JH**, Case-based Review of Magnetic Resonance (An Interactive Session), Brain. RSNA; Chicago Illinois, Lecturer, 12/01/2014

121. **Burdette JH**, Music in Winston-Salem, Salon Series - Music, The Brain, & Medicine, New Winston Museum, Winston Salem, NC 11/17/2016

122. **Burdette JH**, Music, Starlings, and the Brain: Peering Behind the Veil of Neuroscience, TEDx Emory, Atlanta, GA 2/24/2018

123. **Burdette JH**, Music Starlings, and the Brain, The Triangle Imaging Symposium at The UNC Biomedical Research Imaging Center (BRIC), Chapel Hill, NC 4/18/2018

124. **Burdette JH** and Laurienti PJ and Burdette JH, Finding Solutions: The Brain, Music, Complexity Science, and Rehabilitation, 2018 ACRM Annual Conference, Progress in Rehabilitation Research, Dallas, TX 9/30/2018

125. **Burdette JH**, Disentangling Brain Networks: The Future of Predicting Weight Loss in Older Adults, Pepper Center External Advisory Board Meeting, Wake Forest School of Medicine, Winston Salem, NC 5/10/2019

126. **Burdette JH**, The Neuroradiology of Epilepsy, Universidad San Francisco de Quito International Epilepsy Conference, Quito, Ecuador 6/2019

127. **Burdette JH**, The Frontiers in Neuroscience: Perceptions and Consciousness, Universidad San Francisco de Quito, Quito, Ecuador 2/2023

128. **Burdette JH**, Music and the Brain, Renaissance Weekend at Amelia Island, FL 2/2024

129. **Burdette JH**, What you didn't know about your brain, Renaissance Weekend at Amelia Island, FL 2/2024

COMMUNITY ACTIVITIES AND SERVICE

Founder, Director, and Host of the Blüthner Chamber Music Series	2003 – Present
Board of Directors, Piedmont Opera	2003 – 2010 2012 – Present
Board of Directors, Winston-Salem Symphony	2014 – 2016
President, Winston-Salem Youth Orchestra Council	2014 – Present
Member of the Piedmont Opera Chorus La Traviata Die Fledermaus The Light in the Piazza Turandot H.M.S. Pinafore	2007 – Present

Carmen

The Flying Dutchman

The Italian Girl in Algiers

Silent Night

The Pirates of Penzance

La bohème

Gianni Schicchi

Ragtime

Don Pasquale

Il Trovatore

Opera Roles

Carpenter in HMS Pinafore	March 2011
Guccio in Gianni Schicchi	October 2021

Charter Member of Yadkin Riverkeeper Association	2008 – Present
Dancer in “Take the Lead” Fundraiser for the Bethesda Homeless Shelter	April 2011

Conductor: Surry County Chorale and Members of the Winston-Salem Symphony

Handel’s *Messiah*	12/03/2000
John Rutter’s *Requiem*	04/08/2001