

**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
Telephone: (336) 716-1188

EDUCATION:

College: Duke University 1985-1989
Durham, North Carolina
B.S.E. in Biomedical Engineering

Oxford University (New College) 1988
England (summer)
Major: Law and Liability

Honors and Awards: Angier B. Duke Memorial Scholar 1985-1989
Full tuition

Richard Miles Thompson Engineering Scholar 1987-1989
Academic Engineering Scholarship (\$2000/year)

Tau Beta Pi Engineering Honor Society 1988

Summa cum laude 1989

Phi Beta Kappa Honor Society 1989

Graduation with Distinction 1989
for Senior Engineering Thesis

Medical School: The University of Tennessee College of Medicine 1989-1993
Memphis, Tennessee
M.D.

Honors and Awards: Doggett Merit Scholar 1989-1993
1 of 4 students chosen; full tuition

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
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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	
<i>American Journal of Neuroradiology (AJNR)</i>	2000-Present
<i>Acta Paediatrica</i>	2000-Present
<i>Journal of Computed Assisted Tomography</i>	2001-Present
<i>Neuroscience Letters</i>	2003-Present
<i>Cognitive Brain Research</i>	2005-Present
<i>Neuroscience and Biobehavioral Reviews</i>	2007-Present
<i>Journal of Pediatric Neuroradiology</i>	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) Education Exhibits Awards Committee Judged all of the Neuroradiology Posters at the National Meeting	2003-2006
Radiological Society of North America (RSNA) Education Committee: Neuroradiology Subcommittee	2004-2007
Radiological Society of North America (RSNA) RadLex Committee Computed Tomography Lexicon Development Committee	2007

INSTITUTIONAL SERVICE:

Hospital, School, Medical Center Committees:

Director Clinical Neuro MRI Head of Clinical MRI Protocols Wake Forest School of Medicine	2000-Present
Radiology Benefits Committee Wake Forest School of Medicine	2001

Resident Selection Committee, Department of Radiology Wake Forest School of Medicine	2001-Present
Residency Education Committee Wake Forest School of Medicine	2001-Present
Member Neuroscience Graduate Program Faculty Wake Forest School of Medicine	2001-Present
Neuroradiology Liaison for Resident Education PRRE: Person with Responsibility for Resident Education for Neuroradiology Wake Forest School of Medicine	2002-Present
Chair Committee to Evaluate a Faculty Promotion Wake Forest School of Medicine	2003
Neuroradiology representative for ACGME residency accreditation process Wake Forest School of Medicine	2003, 2009
Councilor Western North Carolina Society for Neuroscience Centered at Wake Forest School of Medicine	2005-2007
Reviewer Travel Award to the Society of Neuroscience Annual Meeting for Graduate Students at Wake Forest School of Medicine	2006
Grant Reviewer TSI Pilot Grants Wake Forest School of Medicine	2007
Member Visual and Performing Arts Committee for the Medical Center Wake Forest School of Medicine	2007-Present
Grant Reviewer MSRP Summer Research Program Wake Forest School of Medicine	2009-Present
Member Institutional Review Board (IRB) Wake Forest School of Medicine	2009-Present
Clinical Director Translational Science Center Wake Forest University	2010-Present
Vice-Chairman of Research for the Department of Radiology Wake Forest School of Medicine	May 2013-Present

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 8 th 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 <i>"Changes in Global Rates of Cerebral Perfusion Associated with Normal Development as Measured with MR Arterial Spine Labeling"</i>	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

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

R01 AG052419 07/15/2018 - 04/31/2024 10% effort
NIH/NIA \$469,360

Role of cannabis on HIV-related cognitive impairment: a brain connectomics study

This study applies a connectomics approach to examine how HIV and marijuana interact to disrupt neural networks that underlie cognitive functioning, with implications for the development of improved diagnostics and treatments.

Principal Investigator: Christina Meade, PhD

Role: Co-Investigator

GRANTS: PAST

Wake Forest University School of Medicine Intramural Research 03/2001 – 03/2002
Support Committee

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 07/2002 – 6/2004
Research Academic Fellowship (GERRAF)

Title: Using fMRI to Evaluate Sensory Processing in Dyslexia

Principal Investigator: **Jonathan Burdette, MD**

Total Grant Amount: \$130,000

R01 HL070825 NHLBI Title: The ARIC MRI and Neurocognitive Longitudinal Study Subcontract PI: Laura Coker, PhD Total Grant Amount: \$5,071,949	10/2002 – 10/2005
R21 NS044149 NINDS Title: Alteration of Cross-Modal Sensory Processing in Dyslexia Principal Investigator: Jonathan Burdette, MD Total Grant Amount: \$342,530	06/2004 – 05/2006
Center for Investigative Neuroscience at Wake Forest University School of Medicine Title: Multisensory Processing Deficits in Dyslexia Principal Investigator: Jonathan Burdette, MD Total Grant Amount: \$19,350	07/2003 – 06/2006
R03 HD050860 NICHD Title: A Multisensory Framework for Developmental Dyslexia Principal Investigator: Mark Wallace, PhD Total Grant Amount: \$146,000	07/2005 – 06/2007
R21 HD049019 NICHD Title: Motor Functional Neuroanatomy in Cerebral Palsy Principal Investigator: George Wittenberg, MD, PhD Total Grant Amount: \$179,878	10/2005 – 08/2007
R21 HD049019 NICHD Title: Motor-Functional Neuroanatomy in Cerebral Palsy Principal Investigator: Lumy Sawaki, MD, PhD Total Grant Amount: \$310,801	09/2005 – 09/2007
R01 MH068896 NIMH Title: Integrated Tool for Biological Parametric Mapping Principal Investigator: Joseph A. Maldjian, MD Total Grant Amount: \$1,740,725	08/2004 – 05/2009
R01 EB03880-04 NIBIB Title: The Effects of Caffeine on Functional and Perfusion MRI Principal Investigator: Paul J. Laurienti, MD, PhD Total Grant Amount: \$1,250,000	04/2005 – 01/2010
R21 NS056272 NINDS Title: MR Imaging and Genotype/Phenotype association in a South African dyslexia cohort. Principal Investigator: Jonathan Burdette, MD Total Grant Amount: \$272,555	07/2007 – 06/2011

Translational Science Center 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	07/2011 – 06/2012
Clinical Research Unit 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	07/2011 – 06/2012
R01 NS039426 NINDS Title: Supraspinal Processing of Sensory Aspects of Pain Principal Investigator: Robert Coghill, PhD Total Grant Amount: \$ 4,630,790	12/1999 – 03/2014
U01 HL096814 NHLBI / NINDS ARIC Neurocognitive Study (ARIC-NCS) Principal Investigator: Lynne Wagenknecht, DrPH Total Grant Amount: \$3,514,143	07/2010 – 04/2014
Translational Science Center 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	07/2012 – 06/2014
Industry Contract 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	09/2013 – 08/2014
R01 HL089115 NHLBI Title: Improving Neurologic Outcomes in Diabetics Undergoing Cardiac Surgery Principal Investigator: Edward Kincaid, MD Total Grant Amount: \$3,609,424	02/2008 – 11/2014
R01 ES 008739-16S1 NIEHS Title: CBPR On Pesticide Exposure & Neurological Outcomes For Latinos: PACE4 Principal Investigator: Paul Laurienti, MD, PhD Total Grant Amount: \$302,141	03/2013 – 02/2015
LCBN / Sticht Center Title: Network Imaging Initiative Principal Investigator: Paul Laurienti, MD, PhD Total Grant Amount: \$200,000	07/2012 – 10/2016

Industry Contract
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

03/2014 – 02/2017

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

03/2012 – 02/2018

R01 ES008739
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

03/2013 – 02/2018

R01AG051624-02S2
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

09/2017 – 04/2021

P50 AA026117
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)

12/2017 – 11/2022

R01 ES008739
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

09/1996 – 12/2022

R01 AG052419
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

09/2017 – 12/2023

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: Principles and Clinical Applications*. Springer New York Heidelberg Dordrecht 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 Dordrecht 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.

Journal Articles:

1. **Burdette JH**, Minoshima S, Vander Borcht 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-value better? *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 Cortex* 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.
53. Pollock JM, Tan H, Whitlow CT, **Burdette JH**, Maldjian JA. Arterial Spin Labeled MR Perfusion Imaging: Clinical Applications. *Magn Reson Imaging Clin N Am.* 2009; 17(2):315-38.
54. Joyce KE, Laurienti PJ, **Burdette JH**, Hayasaka S. A new measure of centrality for brain networks. *PLoS ONE*, 2010; 5:8.
55. **Burdette JH**, Laurienti PJ, Espeland MA, Morgan A, Telesford Q, Vechlekar CD, Hayasaka S, Jennings JM, Katula JA, Kraft RA, Rejeski WJ. Using network science to evaluate exercise-associated brain changes in older adults. *Front Aging Neurosci.* 2010; 2:23.
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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.
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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, Bologna, 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.
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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.
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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-world 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 JH**, 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 in 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. 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.

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 Neuroradiology: 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 Orientation, 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 Orientation, 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	2007 – Present
La Traviata	
Die Fledermaus	
The Light in the Piazza	
Turandot	
H.M.S. Pinafore	

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