

**Wake Forest University School of Medicine
Curriculum Vitae**

NAME: Jonathan Hill Burdette, M.D.

CURRENT ACADEMIC TITLE: Professor of Radiologic Sciences – Radiology
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 Certificate of Added Qualification in Neuroradiology 2000	1997
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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) 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 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

4 R18 HL076441-10 03/01/2012 - 02/28/2018 10% effort
NHLBI \$577,723 annual
Cooperative Lifestyle Intervention Programs (CLIP II)

This study will provide the first large scale randomized controlled clinical trial to evaluate the effects of diet-induced weight loss (WL) on mobility in obese, older adults with coronary heart disease or metabolic syndrome as compared to WL combined with physical activity.

Principal Investigator: W. Jack Rejeski, PhD

4 R01 ES008739-19 03/01/2013 - 02/28/2016 5% effort
NIEHS \$489,907

CBPR on Pesticide Exposure & Neurological Outcomes for Latinos: PACE4

This supplemental funding will be used to obtain magnetic resonance brain imaging for the parent study examining the effects of agricultural pesticides in migrant and seasonal Latino farmworkers.

Principal Investigator: Thomas Arcury, PhD

5 P01 AA021099-05 09/01/2013 - 08/31/2017 5% effort
NIAAA \$578,098

Translational Studies On Early-Life Stress and Vulnerability To Alcohol Addiction

This project will use network science to investigate the effects of life stressors and aging compounded with moderate alcohol use.

Project Principal Investigator: Paul Laurienti, MD, PhD

Industry Contract 03/01/2014 - 02/28/2017 12% effort
The Hershey Company \$455,995

Effects of a Cocoa Shot on the Human Brain II

The Hershey Company is interested in investigating the effects of various chocolate beverages on brain physiology and cognitive function. (NCT02080845)

Co-Principal Investigators: Paul Laurienti, MD, PhD / **Jonathan Burdette, MD**

GRANTS: PENDING

Admin. Supp. to R01 (Nicklas/Rejeski) 06/01/2017-04/30/2021 18% effort
NIA \$134,072

The role of structural and functional brain phenotyping in moderating weight loss and weight regain in the EMPOWER study (AG051624-01)

Administrative Supplement PI: **Jonathan Burdette, MD**

GRANTS: PAST

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

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

Wake Forest University School of Medicine Intramural Research
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
03/2001 - 03/2002

General Electric-Association of University Radiologists Radiology
Research Academic Fellowship (GERRAF)
Title: Using fMRI to Evaluate Sensory Processing in Dyslexia
Principal Investigator: **Jonathan Burdette, MD**
Total grant amount: \$130,000
07/2002 - 6/2004

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

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

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

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
04/2005 - 01/2010

Principal Investigator: Paul J. Laurienti, MD, PhD
Total grant amount: \$1,250,000

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 09/2005 - 09/2007
NICHD
Title: Motor-Functional Neuroanatomy in Cerebral Palsy
Principal Investigator: Lumy Sawaki, MD, PhD
Total grant amount: \$310,801

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 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

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

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 07/2011 - 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

Translational Science Center 07/2012 - 06/2014
Wake Forest University
Brain Network Analysis in the Cooperative Lifestyle Intervention Program (CLIP II Imaging)

Principal Investigator: **Jonathan Burdette, MD**
Total grant amount: \$17,000 annual

LCBN / Sticht Center 07/2012 - 10/2016
Network Imaging Initiative
Principal Investigator: Paul Laurienti, MD, PhD
Total grant amount: \$200,000

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

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.

Journal Articles:

1. **Burdette JH**, Minoshima S, Vander Borgh 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. **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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. Laurienti PJ, Field AS, **Burdette JH**, Maldjian JA, Yen FY, Moody DM. Dietary caffeine consumption modulates fMRI measures. *NeuroImage* 2002; 17:751-57.
16. **Burdette JH**, Elster AD. Diffusion-weighted imaging of cerebral infarctions: Are higher b-value better? *J Comput Assist Tomogr* 2002; 26:622-27.
17. **Burdette JH**. Functional MR imaging to evaluate sensory processing in dyslexia. *Acad Radiol* 2002; 9:1062-63.
18. 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.
19. 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.

20. 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.
21. 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.
22. 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.
23. Hairston WD, Laurienti PJ, **Burdette JH**, Wallace MT. Multisensory enhancement of localization under conditions of myopia. *Exp Brain Research* 2003;152:404-08.
24. 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.
25. **Burdette JH**. Is CT perfusion ready for prime time? *AJNR Am J Neuroradiol* 2004; 25:3-4.
26. Maldjian JA, Laurienti PJ, **Burdette JH**. Precentral Gyrus Discrepancy in Digital Versions of the Talairach Atlas. *Neuroimage* 2004; 21:450-55.
27. 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.
28. 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.
29. 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.
30. 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.
31. Laurienti PJ, **Burdette JH**, Maldjian JA, Wallace MT. Enhanced multisensory integration in older adults. *Neurobiol Aging*. 2006; (8):1155-63.
32. **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.
33. Hairston WD, Hodges DA, **Burdette JH**, Wallace MT. Auditory enhancement of visual temporal order judgment. *Neuroreport*. 2006; 17(8):791-95.
34. 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.
35. Toole JF, Flowers DL, **Burdette JH**, Absher J. A Pianist's Recovery from Stroke. *Archives of Neurology* 2007; 64(8): 1184-88.

36. 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.
37. 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.
38. 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.
39. 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.
40. 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.
41. 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.
42. Maldjian JA, Laurienti PJ, **Burdette JH**, Kraft RA. Clinical Implementation of Spin Tag Perfusion MRI. *J Comput Assist Tomogr.* 2008; 32(3):403-06.
43. 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.
44. 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.
45. 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.
46. 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.
47. 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.
48. 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.
49. 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.
50. 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.

51. 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.
52. 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.
53. Joyce KE, Laurienti PJ, **Burdette JH**, Hayasaka S. A new measure of centrality for brain networks. *PLoS ONE*, 2010; 5:8.
54. **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.
55. Presley TD, Morgan AR, Bechtold E, Clodfelter W, Dove RW, Jennings JM, Kraft RA, S. King SB, Laurienti PJ, Rejeski WJ, **Burdette JH**, Kim-Shapiro DB, Miller GD. Acute effect of a high nitrate diet on brain perfusion in older adults. *Nitric Oxide* 2011; 24(1):34-42.
56. Pollock JM, Whitlow CT, Simonds J, Stevens EA, Kraft RA, **Burdette JH**, Maldjian JA. Response of arteriovenous malformations to gamma knife therapy evaluated with pulsed arterial spin-labeling MRI perfusion. *AJR Am J Roentgenol*. 2011; 196(1):15-22.
57. Curtis AR, Tegeler C, **Burdette JH**, Yosipovitch G. Holistic approach to treatment of intractable central neuropathic itch. *J Am Acad Dermatol*. 2011; 64(5):955-59.
58. Laurienti PJ, Joyce KE, Telesford QK, **Burdette JH**, Hayasaka S. Universal fractal scaling of self-organized networks. *Physica A* 2011; 84, 016111.
59. Moussa MN, Vechlekar CD, **Burdette JH**, Steen MR, Hugenschmidt CE, Laurienti PJ. Changes in cognitive state alter human functional brain networks. *Front. in Human Neuroscience* 2011; 5: 1-15.
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85. Telesford QT, **Burdette JH**, Laurienti PJ. Understanding dynamics in time-dependent networks: Graph analysis in the adult interactome. NetSci. Chicago, IL, USA. June 2012.
86. 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.
87. 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.
88. 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.

89. 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.
90. 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.
91. 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.
92. 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
93. Winkler A, Paolini B, Laurienti PJ, **Burdette JH**. Your Brain on Caffeine. 168th Annual Meeting of the American Psychiatric Association. Toronto, Canada. May 2015.
94. 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.
95. 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.
96. 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.
97. 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.
98. 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.
99. Mayhugh, R.E., Moussa, M.E., Lyday, R.G., Burdette, J.H., Laurienti, P.J. 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.
100. 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.
101. Mayhugh, R.E., Burdette, J.H., 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.

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 McElhane, 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 Borcht 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, BestHealth 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, 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

GRADUATE STUDENTS/RESIDENTS/FELLOWS ADVISED:

- | | |
|--|-----------|
| Aaron Field, M.D., Ph.D, neuroradiology fellow
fMRI and MR perfusion projects.
Current position: Associate Professor at the University of Wisconsin, Madison
since July 2001.; NIH R01 funded | 1999-2001 |
| Paul Laurienti, M.D, Ph.D.
Post doctoral fellow in Department of Neuroscience | 1999-2000 |

Collaborator and mentor on fMRI of multi-sensory processing;
On faculty in Department of Radiology since October 2000.
Recipient of K08 award, Dana Foundation award, and several NIH Grants
Current Position: Colleague and Co-founder of the Laboratory for Complex Brain
Networks within the Dept. of Radiology at Wake Forest School of Medicine

David Durden, M.D., neuroradiology fellow 1999-2000
Diffusion-weighted imaging at high b-values.
Published in Journal of Computed Assisted Tomography

Eric Martin, M.D., Ph.D., neuroradiology fellow 1999-2000
Mentor on project concerning diffusion imaging of proteinaceous solutions.

Dr. Martin's project was named "Berlex Outstanding General Neuroradiology Paper"
at ASNR meeting, Atlanta, Georgia, 2000.

Neeraj Chepuri, M.D., neuroradiology fellow 2000-2002
Diffusion-tensor imaging in tumor patients. Published in Am J of Neuroradiol.
Current position: fMRI expert in practice in Minneapolis, Minnesota

Curtis Given, M.D., neuroradiology fellow 2000-2002
Pseudo-subarachnoid hemorrhage on CT scans. Published in Am J Neuroradiol.
Current position: faculty at the University of Kentucky since July 2002

Tina Susi, WFU psychology undergraduate 2001
fMRI measures of brain activation during viewing of right and left Rembrandt portraits

Lance Driskill, medical student Summer 2001
Reproducibility of fMRI in cognitive paradigms
Work published in Am J Neuroradiol 2002

Dave Hairston, Ph.D. candidate in Neurobiology and Anatomy 2002-2008
fMRI and psychophysics of cross-modal temporal processing abnormalities.
Several manuscripts accepted

Katherine Davis, WFU neuroscience undergraduate 2003-2004
fMRI and behavioral measures of multisensory integration in the elderly

M.D. Baker, MD, neuroradiology fellow 1999-2001
Current Position: Assistant Professor of Neuroradiology at Wake Forest
School of Medicine

M.S. Bradbury, MD neuroradiology fellow 2001-2002
Current Position: Physician-Scientist at Memorial Sloan-Kettering
Cancer Center

I.C. Thacker, MD, neuroradiology fellow 2001-2003
Current Position: Neuroradiology at Baylor University Medical Center
Dallas, TX

M.T. Edge, MD, neuroradiology fellow 2002-2004

Carter Craddock, MD, neuroradiology fellow 2002-2003
T2 mapping, Wake Forest School of Medicine

J.N. Campbell, MD, neuroradiology fellow Current Position: Neuroradiologist on faculty at Eastern Virginia Medical School	2003-2005
J.M. Potter, MD, neuroradiology fellow Current Position: Neuroradiologist on faculty at the Brody School of Medicine at Eastern Carolina University	2003-2005
M.L. Reedy, MD, neuroradiology fellow Current Position: Neuroradiologist on faculty at the Brody School of Medicine at Eastern Carolina University	2003-2005
M.E. Bennett, MD, neuroradiology fellow	2004-2006
C.W. Mattern, MD, neuroradiology fellow	2004-2006
S. Sarangi, MD, neuroradiology fellow	2004-2006
R. Sayers, MD, neuroradiology fellow Current Position: Neuroradiologist on faculty at the Brody School of Medicine at Eastern Carolina University	2004-2006
W. Patton, MD, neuroradiology fellow	2005-2007
S. Lynn, MD, neuroradiology fellow	2005-2007
A. Sanghvi, MD, neuroradiology fellow	2005-2007
Richard Edwards, PhD candidate Rich received his PhD under the tutelage of Dr. Don Hodges at UNC Greensboro. Dr. Burdette was an advisor to Rich and served on his Dissertation committee (PhD Defense on 10-18-07)	2005-2007
Aaron Baer, medical student, Research assistant Automated Processing Pipeline in Dr. Maldjian's lab	2005-2009
Ramon Casanova, PhD, Post-doc Biologic Parametric Mapping and Dyslexia Current Position: Assistant Professor of Biostatistics at Wake Forest School of Medicine	2006-2008
T.W. Walkiewicz, MD, neuroradiology fellow Current Position: Neuroradiologist at Phoenix Children's Hospital	2006-2008
Tom West, MD, neuroradiology fellow Spin-tag perfusion Imaging Current Position: Neuroradiologist on faculty at the Brody School of Medicine at Eastern Carolina University	2006-2008
C. Geer, MD, neuroradiology fellow Current Position: Interventional Neuroradiologist at Wake Forest School of Medicine	2007-2008

Jeff Pollock, MD, neuroradiology fellow Spin-tag perfusion Imaging (several publications) Current Position: Neuroradiologist on faculty at Oregon Health and Science University	2006-2008
Andy Deibler, MD, radiology resident Trainee on NIH training grant supplement to Dr. Maldjian's R01 Biologic Parametric Mapping, spin-tag perfusion imaging	2006-2007
Lucie Yang, MD, PhD, Post-doctoral fellow in Dr. Laurienti's lab Effect of Caffeine on Functional and Perfusion MRI.	2007-2008
Mike Zapadka, MD, neuroradiology fellow Spin-tag perfusion Imaging Current Position: Neuroradiologist on faculty at Wake Forest School of Medicine	2007-2009
Chris Whitlow, MD, radiology resident, fellow Spin-tag perfusion Imaging (several publications) Winner of the American Society of Pediatric Neuroradiology's "Derek Harwood-Nash Award" at the 2008 ASNR Meeting for Best Paper	2007-2009
Eric Lyders, MD, neuroradiology fellow	2008-2010
Justin Simmonds, MD, neuroradiology fellow	2008-2010
Crystal Vechlekar, MS. neuroscience graduate student	2009-2012
John Tobben, medical student Supervisor of T35 Medical Student Summer Research Project The Effects of Obesity and Aging on Cognition	Summer 2011
Sean Miller, medical student Supervisor of T35 Medical Student Summer Research Project The Effects of Exercise and Fitness on Obesity and Aging	Summer 2011
Martin Creech, Kenan Fellow Curriculum development to bring science to middle school students	Summer 2011
Dan Hampton, medical student Supervisor of T35 Medical Student Summer Research Project The Results of Simulated Assault on Human Functional Brain Networks	Summer 2012
Aaron Winkler, medical student Supervisor of T35 Medical Student Summer Research Project Effects of Caffeine Withdrawal on Human Functional Brain Networks	Summer 2013

COMMUNITY ACTIVITIES AND SERVICE

Founder, Director, and Host of the Blüthner Chamber Music Series	April 2003-Present
Board of Directors, Piedmont Opera	2003-2010 2012-Present

Board of Directors, Winston-Salem Symphony	2014 – Present
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	
Opera Roles	
Carpenter in HMS Pinafore	March 2011
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 <i>Messiah</i>	12/03/2000
John Rutter’s <i>Requiem</i>	04/08/2001