Wake Forest School of Medicine Curriculum Vitae

NAME: Paul J. Laurienti, M.D., Ph.D.

CURRENT

ACADEMIC TITLE: Professor, Department of Radiology

ADDRESS: Department of Radiology

Division of Radiologic Sciences

Wake Forest University School of Medicine

Medical Center Boulevard

Winston-Salem, North Carolina 27157-3972

Telephone: (336) 716-3261

E-mail: plaurien@wakehealth.edu

EDUCATION:

College: University of Colorado at Denver 1986-1987

University of Houston 1987-1991

Houston, Texas B.S. (Psychology)

Graduate School: Neuroscience Graduate Program 1991-1995

University of Texas Medical Branch

Galveston, Texas

Ph.D.

Dissertation Title: Physiologic Properties and Serotonergic Modulation of the

Parapodial Neuromuscular Junction in Aplysia Brasiliana

Dr. James E. Blankenship, Ph.D. - Adviser

Predoctoral: Predoctoral Fellow 1994-1995

NINDS Training Grant

Neuroscience Graduate Program Marine Biomedical Institute

University of Texas Medical Branch

Galveston, Texas

Honors and Awards: National Student Research Forum's Anatomy 1995

and Neuroscience Poster Award

George Sealy Research Award in Neurology 1995 Galveston Chapter Poster Award 1995

Society of Neuroscience

James E. Beall II Memorial Award in 1996

Anatomy and Neurosciences

Medical School: University of Texas Medical Branch 1995-1999

Galveston, Texas

M.D.

Laurienti, Paul J, M.D., Ph.D.

Curriculum Vitae

Page 2

Honors and Awards: Dean's List 1996, 1997, 1998, 1999

Honors Graduate 1999 Alpha Omega Alpha 1998 Phi Kappa Phi 1998

POSTDOCTORAL TRAINING:

Residency: Department of Radiology 1999

Wake Forest School of Medicine Winston-Salem, North Carolina

Fellowship: Postdoctoral Fellow 1999-2000

National Institute of Health Training Grant Department of Neurobiology and Anatomy

Wake Forest School of Medicine Winston-Salem, North Carolina

Mentor: Dr. Barry Stein

PROFESSIONAL LICENSURE:

United States Medical License 1997, 1999

Passed USMLE Parts I, II

ACADEMIC APPOINTMENTS:

Assistant Instructor 1994

School of Allied Health Sciences Division of Human and Basic Science University of Texas Medical Branch

Galveston, Texas

Consulting Scientist to Jin Mo Chung, Ph.D. 1997

Marine Biomedical Institute

University of Texas Medical Branch

Galveston, Texas

Research Associate 2000-2002

Department of Radiology

Wake Forest School of Medicine

Assistant Professor 2002-2006

Department of Radiology

Wake Forest School of Medicine

Associate 2003-present

Department of Biomedical Engineering

Division of Radiologic Sciences Wake Forest School of Medicine

Associate Professor 2006-2011

Department of Radiology

Wake Forest School of Medicine

Professor 2011-present

Department of Radiology

Wake Forest School of Medicine

PROFESSIONAL APPOINTMENTS AND ACTIVITIES:

National:

NIH Study Section

NIH Study Sections			
	MEDI Study Section Ad hoc Charter Member	2004-2006 2006-2010	
	NCCAM Study Section Grant Reviewer	2004	
	Neuroscience Blueprint Center NINDS Study Section	2006	
	Neuroscience Blueprint Software Design NINDS Study Section	2007	
	Psychosocial Risk and Disease Prevention (PRDP) Study Section	Sept 2010	
	Clinical/Translational Study Section Grant Reviewer	June 2011	
	Outstanding New Environmental Scientist Award NIEHS Special Emphasis Panel	June 2018	
	Neural Control of Mobility in Aging NIA Special Emphasis Panel	July 2018	
	Next Generation Clinical Researchers AD/ADRD NIA Study Section	Oct 2018	
	Superfund Research Program NIEHS Special Emphasis Panel	June 2019	
NSF Study Sections			
	Major Instrumentation Grant Review Study Section Member	April 2013	
	Cognitive Neuroscience Study Section Grant Reviewer	March 2017	
	CRCNS Study Section Grant Reviewer	March 2022	
VA Study Sections			
	Neurodegenerative Diseases Pehabilitation	March 2017	

VA Study Sed

Neurodegenerative Diseases Rehabilitation Research Study Section Grant Reviewer	March 2017
Neurodegenerative Diseases Rehabilitation (SPiREs) Review Group	April 2017
Small Projects in Rehabilitation Research (SPiREs) Review Group	Oct 2017

NIH Advisory Committees

	ACCORD-MIND Clinical Trial Planning Committee Bethesda, Maryland Member	2002
	NIH/NIDA Institutional Review Board Member	2005
Other Nationa	l Committees	
	Claude Pepper OAIC University of Pittsburgh Grant Reviewer	2010-2011
	Complenet Workshop on Complex Networks Program Committee	2012 2015 2016
	Carolinas Medical Center University of North Carolina Charlotte Brain Behavior and Neurosciences Focus Group	2013
	Cal-BRAIN Seed Grant Program Grant Reviewer	2015
	UT-BRAIN Seed Grant Program Grant Reviewer	2015
	16 th Annual NIEHS Science Day Abstract Reviewer and Judge	2018
	Complex Networks Program Committee	2020 2021 2022
International:		
	Ireland Health Research Board Grant Reviewer	2009
	Experimental and Translational Medicine Scottish Government Grant Reviewer	2010
	External Member Dissertation Committee Concordia University, Dept. Psychology Montreal, Canada External Member Dissertation Committee	2010
	Leading Causes of Life Initiative Winston Salem, NC / Cape Town, South Africa http://www.leading-causes.com Fellow	2013-present
	European Science Foundation Grant Reviewer	2014
	Ireland Health Research Board Grant Reviewer	2016

Laurienti, Paul J, M.D., Ph.D. Curriculum Vitae

Page 5

Deutsche Forschungsgemeinschaft 2016

Grant Reviewer

Deutsche Forschungsgemeinschaft 2020

Grant Reviewer

Israel Science Foundation 2022

Grant Reviewer

Industry:

Clostra (CLOSTRA.com) 2020

Scientific Advisor

Editorial work:

Associate Editor of Brain Imaging Methods Section 2023-present

Frontiers in Neuroscience Frontiers in Neurology Frontiers in Neuroimaging

Editorial board

Brain Sciences (ISSN 2076-3425) 2021-present

Ad hoc reviewer

Brain Research Brain Tomography Cerebral Cortex

Cognitive Neurodynamics Cognitive Processing

Computational and Mathematical Methods in Medicine

Drug and Alcohol Dependence European Journal of Neuroscience

Engineering

Experimental Aging

Experimental Brain Research

Frontiers in Integrative Neuroscience

Frontiers in Physics Human Brain Mapping

IEEE Transactions on Neural Systems & Rehabilitation

Journal of the American Geriatrics Society

Journal of Cognitive Neuroscience

Journal of Experimental Psychology: Human Perception and

Performance

Journal of Neurophysiology Journal of Neuroscience

Network Neuroscience

Neurobiology of Aging

Neurolmage

Neuropsychologia

NeuroReport

Neuroscience

Neurotoxicology

Nuclear Medicine and Molecular Imaging PLoS One PLoS Computational Biology Perception and Psychophysics Psychosomatic Medicine Scientific Reports Statistical Analysis and Data Mining

INSTITUTIONAL SERVICE:

Faculty Appointments:

	J. Paul Sticht Center on Aging and Rehabilitation Wake Forest School of Medicine	2008-present
	Diabetes Research Center Wake Forest School of Medicine	2009-present
	Translational Science Center Wake Forest University - Reynolda Campus	2009-present
	Translational Science Institute Wake Forest School of Medicine	2010-present
	Center for Bimolecular Imaging Wake Forest School of Medicine	2012-present
	Center for Integrative Medicine Wake Forest School of Medicine	2012-present
_	ah in a .	

Directorships/Chairmanships:

Director Functional Magnetic Resonance Imaging Lecture S Wake Forest School of Medicine	2001-2003 Series
Associate Director Medical Student Research Training Program Wake Forest School of Medicine	2005-2006
Associate Director ANSIR Laboratory Wake Forest School of Medicine	2006-2008
Assistant Vice Chairman Radiology Research, Department of Radiology Wake Forest School of Medicine	2006-2009
Co-Director MMS/PhD Program Wake Forest School of Medicine	2009-2011
Director MD/PhD Program Wake Forest School of Medicine	2006-2012
Director Medical Student Research Training Program (T35DK007400) Wake Forest School of Medicine	2009-2012

Laurienti, Paul J, M.D., Ph.D. Curriculum Vitae

2002-2003

		Curriculum Vitae
	Chair Research Awards Day Committee Wake Forest School of Medicine	Page 7 2012
	Director Laboratory for Complex Brain Networks (LCBN) Wake Forest School of Medicine	2009- present
	Director Research Core for Translational Science Center Wake Forest University Reynolda Campus	2010-present
Dean Appointed Commi	ttee:	
	ttee 2005-2011	
	Institutional Review Board Wake Forest School of Medicine	2006-2007
	Graduate School of Biomedical Science Wake Forest School of Medicine	2006-2011
	Wake Forest University Independent Data Safety and Monitoring Board Wake Forest School of Medicine	2008-2012
	Intramural Research Support Committee Wake Forest School of Medicine	2008-2010
	Wake Forest University Independent Data Safety and Monitoring Board <i>ad hoc</i> Wake Forest School of Medicine	2012-2015
	Research Advisory Council Wake Forest School of Medicine	2012-2015
	Centers and Cores Advisory Committee Wake Forest School of Medicine	2016-2017
	Committee on Women in Science and Medicine Wake Forest School of Medicine	2016-2017
Other Committees and S	Service:	
	Member Center for Investigative Neuroscience Wake Forest School of Medicine Winston-Salem, North Carolina	2001-2004
	Interviewer Medical School Admissions Wake Forest School of Medicine	2001-2005
	Member Neuroscience Graduate Program Faculty Wake Forest School of Medicine	2001-present

Member Kulynych Intramural Grant Review Committee Wake Forest School of Medicine

Laurienti, Paul J, M.D., Ph.D. Curriculum Vitae Page 8

Member 2002-2005

Neuroscience Graduate Program Admissions Committee

Wake Forest School of Medicine

Member 2002-present

Graduate School Faculty

Wake Forest School of Medicine

Advisory Board Member 2002-2009

Kulynych Center for Memory and Cognition Research

Wake Forest School of Medicine

Counselor 2003-2004

Western North Carolina Society for Neuroscience

Wake Forest School of Medicine

Faculty Advisor 2003-2005

MD/PhD Program

Wake Forest School of Medicine

Member 2006-2008

Translational Science Institute Committee Novel and Clinical Translational Methodologies

Wake Forest School of Medicine

Member 2006-present

Pepper OAIC Data Safety and Monitoring Board

Wake Forest School of Medicine

Member 2007-present

J. Paul Sticht Center on Aging Wake Forest School of Medicine

Member 2008-2010

Translational Science Institute Committee

Research Education, Training and Career Development

Wake Forest School of Medicine

Member 2009-present

Center for Diabetes Research Wake Forest School of Medicine

Reviewer 2009

Internal Mini-Study Section

Office of Research

Wake Forest School of Medicine

Ad hoc Member 2010-2012

Committee on Admissions

Wake Forest School of Medicine

Graduate School Reorganization Task Force 2010

Wake Forest School of Medicine

Member 2010-present

Neurosciences Graduate Executive Committee

Member 2012-present

Center Integrative Medicine
Wake Forest School of Medicine

Laurienti, Paul J, M.D., Ph.D. Curriculum Vitae

	Ci	irriculum Vitae
1	Search Committee Member McCreary Endowed Chair Department of Psychiatry and Behavioral Medicine	Page 9 2013-2014
	Wake Forest School of Medicine	
I	Member Pepper OAIC Advisory Committee Wake Forest School of Medicine	2014-2018
(Member Centers and Cores Advisory Committee Wake Forest School of Medicine	2016-2017
1	Member Women in Medicine and Science Wake Forest School of Medicine	2016-2017
(Member Center for Research on Substance Use & Addiction Wake Forest School of Medicine	2016-present
1	Member Research Day Awards Committee Wake Forest School of Medicine	2019
I	Member Research Day Awards Committee Wake Forest School of Medicine	2020
Institutional Development	:	
I	Brain Training 101 Half Century Club Founders' Day Program Wake Forest University, Winston Salem, NC	02/2011
I	ls Brain Fitness the Fountain of Youth Dean's Forum, Bridger Field House Wake Forest University, Winston Salem, NC	02/2011
Į.	Breaking Brains Planned Gift Advisory Council Wake Forest Baptist Medical Center Winston Salem, NC	10/2013
-	Aging Brain Translational Science Center's Speakers Bureau Archdale Senior Center, Archdale, NC	12/2013
I	Memory: It's About Your Brain and Your Body Dean's Forum, Bridger Field House Wake Forest University, Winston Salem, NC	03/2014
1	Memory: It's About Your Brain and Your Body Lexington Medical Center Foundation Lexington Medical Center, Lexington, NC	05/2014
I	Rethinking the Brain Homecoming and Reunion Weekend Wake Forest University, Winston Salem, NC	09/2014

Laurienti, Paul J, M.D., Ph.D. Curriculum Vitae Page 10

	Engage Magazine Cover Story Wake Forest Baptist Medical Center Devel. Office Video Interview: https://vimeo.com/111744750	12/2014
	Memory: It's About Your Brain and Your Body Dean's Forum, Bridger Field House Wake Forest University, Winston Salem, NC	03/2014
	Memory: It's About Your Brain and Your Body Lexington Medical Center Foundation Lexington Medical Center, Lexington, NC	05/2014
	Connected Systems WFBMC Comprehensive Campaign Launch Celebration, Winston Salem, NC https://vimeo.com/141178258	10/2015
	Spreading Complexity: Bringing Network Neuroimaging to Interdepartmental Collaborationsat Wake Forest Dean's Research Symposia Series – Radiology Wake Forest University, Winston Salem, NC	11/2020
PROFESSIONAL MEMBER	SHIPS AND SERVICE:	
	Texas Society for Biomedical Research UTMB Student Chapter	1993-1995
	Society for Neuroscience, Galveston Chapter	1993-1996
	Sigma Xi National Research Honor Society	1993-present
	Society for Neuroscience	1993-2010
	American Medical Association	1995-1999
	Texas Medical Association	1995-1999
	Organization for Human Brain Mapping	2000-2015
	International Multisensory Research Forum	2002-2015
	Western North Carolina Society for Neuroscience	2003-present
	Research Society on Alcoholism	2020-present
HONORS AND AWARDS:		
	The National Institutes of Health LRP Scholar	2003-2009
	Wake Forest University "New Investigator in Clinical Sciences Award"	2005
	Wake Forest University "Outstanding Mid-Career Faculty Research Award"	2011
	Linda and Phillip Lader Renaissance Weekend Fellow	2012
	Wake Forest University "Team Science Award"	2014
	Academy of Radiology Research Distinguished Investigator Award	2016

Wake Forest University "Team Science Award"

2017

SELECTED MEDIA COVERAGE:

Caffeine 01/2005 National Geographic Cover Story

A Brain on Caffeine 03/2006

Current TV Segment https://www.youtube.com/watch?v=2QkvclQrEBk

Caffeine's Effects on the Human Brain 04/2012

ABC News reported by Lisa Stark

http://abcnews.go.com/WNT/video/caffeines-effects-human-brain-interacts-blood-flow-lisa-stark-health-16141081

Emergency Room Cases Involving 01/ 2013

Energy Drinks Increase
ABC News reported by Lisa Stark

http://abcnews.go.com/WNT/video/emergency-room-cases-involving-energy-drinks-increase-18233110

Untangling the Human Connectome 11/2014
Genetic Engineering & Biotechnology News

Interview for Special Report <a href="http://gen.epubxp.com/i/400822-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/40082-nov1-2014/49?m4="http://gen.epubxp.com/i/4008-nov1-2014/49?m4="http://gen.epubxp.com/i/4008-nov1-2014/49?m4="http://gen.epu

Brain Volume Predicts Successful Weight Loss 11/2016 in the Elderly – Science Daily

https://www.sciencedaily.com/releases/2016/11/161102130440.htm

WFU study highlights the power of beets 05/2017 Winston-Salem Journal Article

https://www.journalnow.com/home_food/columnists/michael_hastings/wfu-study-highlights-the-power-of-beets/article_34c918a5-0ca2-5316-87d4-ed88f194b7c7.html

Solution: 'The Slippery Math of Causation' 06/2018 Quanta Magazine Article by Pradeep Mutalik https://www.quantamagazine.org/the-math-of-causation-puzzle-solution-

Coverage of Edited Special Issue of 03/2019
Brain Connectivity

https://phys.org/wire-news/313493560/new-research-on-the-role-of-connectomics-in-brain-development.html

and

highlights/2019/index.cfm

20180629/

https://www.eurekalert.org/pub releases/2019-03/mali-uct032619.php

NIEHS 2019 Grantee Highlight Paul Laurienti 06/2019 'Paul Laurienti, M.D., Ph.D. - Addressing Health Disparities of Farmworkers and their Families' https://www.niehs.nih.gov/research/supported/translational/peph/grantee-

PROFESSIONAL INTERESTS:

Dr. Laurienti is the Director of the Laboratory for Complex Brain Networks (LCBN). In 2006, Drs. Paul Laurienti, Jonathan Burdette and Satoru Hayasaka began to discuss how chaos theory might help explain emergence and complexity in the human brain. Through their discussions,

they began looking for ways and methods that could capture these non-linear processes. Where traditional neuroscience could use functional magnetic resonance imaging (fMRI) to take snapshots of the brain, it was not sufficient for capturing and studying the brain's dynamic complexity. However, an emerging area of research called Network Science was offering methods and means to quantify and analyze dynamic systems. Believing that no single cognitive process could be isolated without affecting the rest of the brain's system, they moved forward in 2009 to create the Laboratory for Complex Brain Networks. Utilizing state-of-the-art technology, the LCBN collaborates with other national and international scientists to envision and develop new and innovative methods for studying and analyzing emergence in brain networks as well as other complex systems. Ongoing studies use whole-brain connectivity to identify critical network nodes, network neighborhoods, and dynamic changes that occur under various cognitive states. Network science is proving to be a powerful tool for assessing brain structure and function and the LCBN is currently evaluating how dynamic changes in network connectivity may be critical for aging, substance abuse, and the toxic effects of pesticides.

GRANTS - CURRENT:

PI or Primary Co-Investigator

P50 AA026117 12/10/2017 - 11/30/2027 22% effort

NIAAA \$301,423 annual (Project 1)

Dynamic functional brain network phenotypes associated with vulnerability to hazardous alcohol consumption.

This project is a continuation of the human neuroimaging studies examining brain networks associated with drinking behaviors in the Wake Forest Translational Alcohol Research Center (WF-TARC). The overarching hypothesis of this proposal that the vulnerability to develop hazardous drinking is manifest in dynamic network connectivity within and between the default mode network (DMN) salience network (SN) and the sensorimotor network (SMN).

Principal Investigator: Jeffrey Weiner

Project PI: Paul Laurienti

R01 AA029926 09/15/2021 - 08/31/2025 25% effort

NIH/NIAAA \$333,774 annual

CRCNS: Multiplexed Impervious Functional Network Complements Brain Function for Tensioned Stability of Neural Information Processing

We will put forward a new description of brain function that can explain the agile functionality whereby we can dwell on a task, and also divert to other tasks, nimbly and seemingly abruptly depending on input. The complementary tools of correlation analysis and causation entropy (CSE) based information flow analysis gives a computationally valid paradigm whereby we will analyze these elements in the multilayer brain network using fMRI data from human subjects

Co-Principal Investigator: Paul Laurienti / Erik Bollt

R01 ES008739 03/01/2013 - 05/31/2024 0% effort

NIH/NIEHS \$563,104 annual

The Effect of Pesticide Exposure on Cognitive and Brain Development in Latino

Children: PACE5

This proposal is an extension of the work that we have performed over the past 20 years (R01ES008739-19) and will evaluate the effects of pesticide exposure on

neurobehavioral and brain development in children in Latino farmworker families.

Co-Principal Investigator: Paul Laurienti / Thomas Arcury

Laurienti, Paul J, M.D., Ph.D. Curriculum Vitae Page 13

0% effort

5% effort

R01 ES008739-24S1 06/01/2022 - 05/31/2024

NIH/NIEHS \$220.838 annual

The Effect of Pesticide Exposure on Cognitive and Brain Development in Latino

Children: PACE5 Administrative Supplement 2

This administrative supplement provides an extra year of funding to cover the delay in data collection and analysis for the PACE 5 study due to the COVID-19 pandemic.

Co-Principal Investigator: **Paul Laurienti** / Thomas Arcury

R01 AA027705 09/20/2019 - 08/31/2024 10% effort

NIH/NIAAA \$41,748 annual

Longitudinal Investigation of TMS As a Tool To Improve Alcohol Treatment Outcomes The results of this study will be used to determine which of the 2 proposed TMS strategies has a larger effect on drinking behavior (% days abstinent, % heavy drinking days) as well as alcohol cue-reactivity in a 4 month period. These data will pave the way for TMS to be used as an innovative, new treatment option for individuals with AUD. Co-Principal Investigators: Merideth Addicott / **Paul Laurienti**

R01 AG076669 04/15/2022 - 03/31/2027 5% effort

NIH/NIA \$763,265 annual

Establishing the optimal frequency of dance movement for neurocognitive and physical outcomes in people at risk of Alzheimer's disease.

This proposal seeks to fill key gaps in our basic understanding about the effects of the number of times per week people engage in dance movement on cardiorespiratory fitness and cognition that are essential for planning larger, definitive trials.

Principal Investigator: Christina Hugenschmidt

Role: Co-Investigator

R01 DA047149 08/01/2023 - 04/30/2024

NIH/NIDA \$400,611 annual

Role of cannabis on HIV-related cognitive impairment: a brain connectomics study Marijuana, the mostly commonly abused drug among HIV-infected persons, may accelerate the development and progression of neurocognitive impairments. 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 S. Meade

Role: Co-Investigator

R01 DA045565 08/01/2023 - 01/31/2024 8.3% effort

NIH/NIDA \$280.896 annual

MRI data fusion to investigate effects of drug abuse on HIV neurological complications Nearly half of HIV-infected Americans experience neurocognitive impairments that impact daily functioning, and the prevalence is even higher among persons who are addicted to stimulant drugs. Using innovative multimodal data fusion approaches, this study will identify the distinct and shared neural signatures of HIV neurological disease and cocaine use disorder that are predictive of neurocognitive impairment. Capitalizing on existing datasets, this project has strong potential to identify appropriate neural biomarkers to facilitate diagnosis and treatment of HIV-associated neurocognitive impairments in active drug users.

Principal Investigator: Christina S. Meade

Role: Co-Investigator

Laurienti, Paul J, M.D., Ph.D. Curriculum Vitae Page 14

0% effort

K25 EB032903 03/01/2023 - 02/28/2027

NIH \$144,490 annual

Statistical Methods for Whole-Brain Connectivity Analysis

The K25 proposal is focused on developing new methodology to improve whole-brain dynamic connectivity analyses of normal and abnormal brain function, which is vital for understanding various brain disorders and may help identify biomarkers and inform early prevention and treatment.

Principal Investigator: Heather Shappell

Role: Primary Mentor

GRANTS - PENDING:

None

PAST GRANT HISTORY:

PI or Primary Co-investigator

Dana Foundation 11/01/2002 - 05/31/2006

Evaluating sensory dysfunction in aging using combined fMRI and MRS image analyses

Principal Investigator: Paul Laurienti

Total Grant Amount: \$100,000

R21 NS044149 06/01/2004 - 05/31/2006

NINDS

Alteration of cross-modal sensory processing in dyslexia

Principal Investigator: Jonathan Burdette

Total Grant Amount: \$403,535

WFUBMC GCRC 10/01/2004 - 03/31/2008 The Effect of Aging on Cross-Modal Sensory Processing

This was a supplement awarded to cover expenses for MRI costs for the grant K08

NS42568

Principal Investigator: Paul Laurienti

WFUBMC GCRC 04/15/2006 - 03/31/2008

Training Multisensory Processing in Older Adults (B-FIT) Supplement

Principal Investigator: Paul Laurienti

K08 NS42568 04/01/2003 - 03/31/2009

NINDS

The Effect of Aging on Cross-Modal Sensory Processing

Principal Investigator: Paul Laurienti

Total Grant Amount: \$654,293

R21 AG026353 04/15/2006 - 03/31/2009

NIA

Training Multisensory Processing in Older Adults (B-FIT)

Principal Investigator: Paul Laurienti

Total Grant Amount: \$431,351

R01 DA020074 04/10/2006 - 12/31/2009

NIDI

Decision Making in Marijuana Users

Principal Investigator: Linda Porrino Total Grant Amount: \$1,504,017

R01 EB03880 04/18/2005 - 01/31/2010

NIBIB

Effect of Caffeine on functional and Perfusion MRI

Principal Investigator: **Paul Laurienti** Total Grant Amount: \$1,250,000

WFUBMC GCRC 04/18/2005 - 01/31/2010

Effect of Caffeine on functional and Perfusion MRI

This was a supplement awarded to assist with participant screening and testing for R01

EB03880.

Principal Investigator: Paul Laurienti

R21 NS056272 07/01/2007 - 06/30/2010

NINDS

MR Imaging and Genotype/Phenotype Association in a South African Dyslexia Cohort

Principal Investigator: Jonathan Burdette

Total Grant Amount: \$353,356

Subcontract 08/01/2007 - 07/31/2010

NIH/U54RR021813 Toga (PI)

Identifying Age Related Atrophy Using Levelset Registration of Embedded Maps

Subcontract PI: **Paul Laurienti** Total Grant Amount: \$218,921

R21 NS059793 09/20/2008 - 08/31/2010

NINDS

Development of a Power Calculation Tool for Neuroimaging Studies

Principal Investigator: Satoru Hayasaka

Total Grant Amount: \$269.360

Translational Science Award 07/01/2010 - 06/30/2011

WFU Translational Science Institute

Examining the Collaboration Network at Wake Forest School of Medicine

Principal Investigator: Paul Laurienti

Total Grant Amount: \$68,000

R01 NS039426 09/30/2009 - 09/29/2011

NINDS

Supraspinal Processing of Sensory Aspects of Pain

Principal Investigator: Robert Coghill Total Grant Amount: \$168,986

HHSN 268200900040C 09/14/2009 - 10/31/2012

NHLBI

Systolic Blood Pressure Intervention Trial (SPRINT)

Principal Investigator: David Reboussin Total Grant Amount: \$13,711,469

R01 NS058700 04/01/2008 - 03/31/2013

NINDS

Genetic Epidemiology of Cerebrovascular Disease and Cognition in Diabetes

Principal Investigator: Donald Bowden

Total Grant Amount: \$3.038.706

Intramural Research 07/01/2011 - 06/30/2013

Support Committee Award Wake Forest School of Medicine

The Effects of Moderate Alcohol Use on Age Related Cognitive Decline

Principal Investigators: Paul Laurienti and Linda Porrino

Total Grant Amount: \$19,826

TSC Beetroot Juice Project 04/01/2013 - 06/30/2014

WFU Translational Science Center

Beetroot Juice as a Supplement to Exercise Training in Older Individuals with

Hypertension

Principal Investigator: Paul Laurienti

Total Grant Amount: \$97,604

Industry Contract 09/01/2013 - 08/31/2014

The Hershev Company

Effects of a Cocoa Shot on the Human Brain

Co-Principal Investigators: Paul Laurienti / Jonathan Burdette

Total Grant Amount: \$132,121

R01 NS070917 05/01/2010 - 01/31/2015

NINDS

Connecting Brain Networks Across Subjects and Across Modalities

Principal Investigator: Satoru Hayasaka

Total Grant Amount: \$1,265,855

R01 ES 008739-16S1 03/01/2013 - 02/28/2015

NIEHS

CBPR On Pesticide Exposure & Neurological Outcomes for Latinos: PACE4

Principal Investigator: Paul Laurienti

Total Grant Amount: \$302,141

Industry Contract 03/01/2014 - 02/28/2015

The Hershey Company

Effects of a Cocoa Shot on the Human Brain II

Co-Principal Investigators: Paul Laurienti / Jonathan Burdette

Total Award Amount: \$455,995

T35 DK007400 05/01/1980 - 04/30/2015

NIDDK

Short Term Research Training of Medical Student Principal Investigator: **Paul Laurienti** (2009-2012) Total Grant Amount: \$1.246.714 since 2000

R21 ES019720 09/09/2011 - 08/31/2015

NIEHS

Pesticide Exposure and Age-Related Changes in Cognitive Function

Principal Investigator: Thomas Arcury

Total Grant Amount: \$185,000

R01 DK092237 09/15/2011 - 08/31/2016

NIH/NIDDK

Action for Health in Diabetes Brain Magnetic Resonance Imaging Ancillary Study (Look

AHEAD)

Principal Investigator: Mark Espeland Total Grant Amount: \$3,637,886

R01 ES008739 03/01/2013 - 02/28/2017

NIEHS

CBPR on Pesticide Exposure & Neurological Outcomes for Latinos: PACE4

Co-Principal Investigator: Thomas Arcury and Paul Laurienti

Total Grant Amount: \$3,560,508

R01 AG044474 08/15/2014 - 05/31/2017

NIA

Ultra-High-Field Neuroimaging in Elderly After a Two-Year Exercise Intervention

Principal Investigator: Caterina Rosano

Subcontract PI: **Paul Laurienti** Total Grant Amount: \$930,992

WFUBMC Pepper Center 07/01/2016 - 08/31/2017

Pilot Grant

Principal Investigator: Paul Laurienti

Total Grant Amount: \$25,000

P01 AA021099 09/01/2013 - 08/31/2017

NIAAA

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

Principal Investigator: Jeffrey Weiner

Project Principal Investigator: Paul Laurienti

Total Grant Amount: \$2,707,620

Enabling Technology FY13 01/01/2014 - 09/30/2017

DOD - Secretary of Defense

Mitigation of Symptoms for PTSD (post-traumatic stress disorder) with or without mild

TBI (traumatic brain injury)

Principal Investigator: Charles Tegeler

Total Grant Amount: \$184,878

R01 MH097751 12/01/2012 - 11/30/2017

NIDA

Adolescent Cannabis Use, Complex Brain Network Connectivity & Schizophrenia Risk

Principal Investigator: Beng-Choon Ho Subcontract PI: **Paul Laurienti**

Total Grant Amount: \$3,296,218

P30 AG21332 07/15/2013 - 06/30/2018

NIA

Wake Forest School of Medicine Claude D. Pepper Older Americans Independence

Center

Principal Investigator: Stephen Kritchevsky

Total Grant Amount: \$535,994

LCBN / Sticht Center 07/01/2012 - 6/30/2018

Network Imaging Initiative

Principal Investigator: Paul Laurienti

Total Grant Amount: \$200,000

R01 AG047422-02S1 09/07/2018 - 05/31/2019

NIH/NIA

Resting Brain Networks and Mobility Function: B-NET Administrative

Supplement

Co-Principal Investigators: Stephen Kritchevsky / Paul Laurienti

Total Grant Amount: \$387,314

R01 AT009444 04/01/2017 - 03/31/2020

NIH/NCCIH

A Randomized Trial of Dance On Mood, Balance and Brain in Alzheimer's Disease

Principal Investigator: Christina Hugenschmidt

Total Grant Amount: \$1,382,479

R01 ES008739-22S1 08/01/2019 - 05/31/2021

NIEHS

The Effect of Pesticide Exposure on Cognitive and Brain Development in Latino

Children: PACE5 Administrative Supplement

Co-Principal Investigator: Paul Laurienti / Thomas Arcury

Total Grant Amount: \$158,138

R01 AG047422-04S1 08/01/2020 - 05/31/2021

NIH/NIA

Combining Assessment of Cognition, Eye Movement, and Gait in Naturalistic Settings to Differentiate Subclinical Alzheimer's Pathology: B-NET Administrative Supplement

Co-Principal Investigators: Stephen Kritchevsky / Paul Laurienti

Total Grant Amount: \$392,315

R01 EB024559 06/15/2018 - 02/28/2022

NIH/NIBIB

Analytical Tools for Complex Brain Networks: Fusing Novel Statistical Methods and

Network Science to Understand Brain Function

Principal Investigator: Sean Simpson Total Grant Amount: \$1,534,484

P50 AA026117 12/01/2017 - 11/30/2022

NIH/NIAAA

How Mindfulness Modulates Craving and Brain Networks in Moderate-To-Heavy

Drinkers

Principal Investigator: Jeffrey Weiner

Project PI: Paul Laurienti

Total Grant Amount: \$1,799,577 (Project 1)

Industry Contract 08/22/2022 - 1/11/2023

Otsuka Study via IQVIA

Principal Investigator: **Paul Laurienti** Total Award Amount: \$299,879

R01 AG052419-05S1 09/01/2022 - 12/31/2023

NIH/NIA

B-NET Administrative Supplement

Co-Principal Investigators: Stephen Kritchevsky / Paul Laurienti

Total Award Amount: \$366.519

R01 AG052419 09/30/2017 - 12/31/2023

NIH/NIA \$587,689 annual Resting Brain Networks and Mobility Function: B-NET

Co-Principal Investigators: Stephen Kritchevsky / Paul Laurienti

Total Award Amount: \$3,066,826

Training Grant Mentor

F31 AG030838 03/01/2008 - 06/23/2009

Ruth L. Kirschstein NRSA, NIA

Evaluating the Neural Effects of an Attention Training Program in Older Adults

Principal Investigator: Jennifer Mozolic

Translational Scholar Award 09/01/2007 - 08/31/2009

WFU Translational Science Institute

Integrating Genomics and Brain Imaging: Mapping Genetic Links Associated with

Normal and Abnormal Brain Structure and Function

Principal Investigator: Satoru Hayasaka

F31 DA024950 03/05/2008 - 09/21/2009

Ruth L. Kirschstein NRSA, NIA

The Effect of Caffeine and Caffeine Withdrawal on Mood, Cognition and fMRI

Principal Investigator: Merideth Addicott

F32 NS054472 05/01/2007 - 06/30/2010

NINDS

Aging and Unisensory Influence of Multisensory Processing

Principal Investigator: Ann Peiffer

Translational Scholar Award 07/01/2010 - 06/30/2012

WFU Translational Science Institute

Age-Related Whole-Brain Analyses via Exponential Random Graph Modeling Methods

Principal Investigator: Sean Simpson

T32 AA007565 09/01/2011 - 08/31/2013

Institutional NRSA, NIAAA

Multidisciplinary training in the biology of addiction.

Principal Investigator: Dr. Brian McCool, Trainee: Malaak Moussa

F31 AA019893 04/01/2011 - 12/31/2013

Ruth L. Kirschstein NRSA, NIAAA

Network Theory Analysis of Ethanol Self-Administered Non-Human Primates

Trainee: Qawi Telesford

K23 NS062892 06/01/2009 - 05/31/2014

NINDS

Diagnostic Ultrasound for Focal Neuropathies Principal Investigator: Michael Cartwright

F31 AA021639 07/01/2013 - 06/30/2015

Ruth L. Kirschstein NRSA, NIAAA

The Effects of moderate Alcohol Use in Age Related Cognitive Decline

Trainee: Malaak Moussa

K25 EB012236 07/01/2012 - 06/30/2017

NIDDK

Statistical Methods for Whole-Brain Connectivity Networks

Principal Investigator: Sean Simpson

F99 NS125832 07/01/2022 - 06/30/2023

F99/K00. NINDS

Relationship of autonomic nervous system function on functional brain networks during normal drinking and abstinence in daily drinkers

Principal Investigator: Hope Peterson

BIBLIOGRAPHY:

Chapters in books:

- 1. Stein BE, **Laurienti PJ**, Wallace MT, Stanford TR. Multisensory Integration. In: V.S. Ramachandran (ed.), *Encyclopedia of the Human Brain*. Vol. 3. Academic Press; 2002:227-241.
- Stein BE, Rowland B, Laurienti PJ., Stanford TR. Multisensory Convergence and Integration. In: R. Krauzlis (ed.), Encyclopedia of Neuroscience. Vol.5. Elsevier; 2009:1119-1124.
- 3. Mozolic JL, Hugenschmidt CE, Peiffer AM, **Laurienti PJ**. Multisensory Integration and Aging. In: M.T. Wallace and M.M. Murray (eds.), *The Neural Bases of Multisensory Processes*. London: Taylor & Francis; 2011:381-392.
- 4. **Laurienti PJ**. Functional Studies in Humans: Physiological Bases. In: B.E.Stein (ed), *The New Handbook of Multisensory Processes*. Boston: MIT Press. 2012.
- 5. Hugenschmidt CE, **Laurienti PJ**, Burdette JH. Physical exercise and the resting brain. In: H. Boecker, C. Hillman, L. Scheef, H.K. Strüder (eds.), *Functional Neuroimaging in Exercise Sciences*. New York: Springer 2012.
- 6. **Laurienti PJ,** Hugenschmidt CE. Multisensory processes in old-age. In: D. Lewkowicz, C. Spence, and A. Bremner (eds.), *Multisensory Development*. London: Oxford Univ. Press. 2012: 251-272.
- 7. **Laurienti PJ**. Overcoming obstacles to creativity in geographically fragmented environments: Lessons from small-world networks. In: L. Book, D. Phillips (ed.), *Creativity and Entrepreneurship: Changing Currents in Education and Public Life*. Northampton: Edward Elgar Publishing. 2013:127-140.
- 8. Bolt TS, Hampton RS, Furr RM, Fleeson WW, **Laurienti PJ**, Dagenbach D. Integrating Personality/Character Neuroscience with Network Analysis. In: J.R. Absher and J. Cloutier (eds), *Neuroimaging Personality, Social Cognition, and Character*. Elsevier Science: Academic Press. 2016: 51-69.

9. Zhu Y, Zhu X, Kim M, Kaufer, D, **Laurienti PJ**, Wu G. Characterizing Dynamic Functional Connectivity Using Data-Driven Approaches and its Application in the Diagnosis of Alzheimer's Disease. In: BC Munsell, G Wu, L Bonilha, and **Laurienti PJ** (eds), *Connectomics: Applications to Neuroimaging*. Elsevier Academic Press. 2018: 181-95.

Editorial work:

- 1. Section editor and Commentary: From Neuron to Brain: Relating neurophysiological principles of multisensory integration to the human brain. In B.E.Stein (ed), *The New Handbook of Multisensory Processes*. Boston: MIT Press. 2012.
- Connectomics in NeuroImaging. First International Workshop, CNI 2017, Held in Conjunction with MICCAI 2017, Quebec City, QC, Canada, September 14, 2017, Proceedings. Editors: Wu G, Laurienti PJ, Bonilha L, Munsell BC. Springer Int. Pub. 2017.
- 3. Connectomics: Applications to Neuroimaging. Editors: Munsell BC, Wu G, Bonilha L, Laurienti PJ. Elsevier Academic Press. 2018.
- 4. *Brain Connectivity,* February 2019. Special Issues Part I, "Connectomics." Guest Editors: Munsell BC, Wu G, Bonilha L, **Laurienti PJ**.
- 5. *Brain Connectivity,* March 2019. Special Issues Part II, "Connectomics." Guest Editors: Munsell BC, Wu G, Bonilha L, **Laurienti PJ**.

Journal Articles:

(Bold number in brackets at the end of reference is the number of times the paper has been cited as of 03/01/2024)

Peer Reviewed

- 1. Gamkrelidze GN, **Laurienti PJ**, Blankenship JE. Identification and characterization of cerebral-ganglion neurons that induce swimming and modulate swim-related pedal-ganglion neurons in *Aplysia brasiliana*. J Neurophysiol 1995; 74: 1444-1462. **(25)**
- 2. **Laurienti PJ**, Blankenship JE. Parapodial swim muscle in *Aplysia brasiliana*. I. Voltagegated membrane currents in isolated muscle fibers. J Neurophysiol 1996; 76: 1517-1530. (12)
- 3. **Laurienti PJ**, Blankenship JE. Parapodial swim muscle in *Aplysia brasiliana*. II. Ca²⁺-dependent K⁺ currents in isolated muscle fibers and their blockade by chloride substitutes. J Neurophysiol 1996; 76: 1531-1539. **(12)**
- 4. **Laurienti PJ**, Blankenship JE. Serotonergic modulation of a voltage-gated calcium current in parapodial swim muscle from *Aplysia brasiliana*. J Neurophysiol 1997; 77: 1496-1502. **(8)**
- 5. **Laurienti PJ**, Blankenship JE. Properties of cholinergic responses in isolated parapodial muscle fibers of Aplysia. J Neurophysiol 1999; 82: 778-786. **(7)**
- 6. Blankenship, JE, Yu, B, Gamkrelidze, GN, **Laurienti, PJ**. Serotonin increases calcium current in swim motoneurons of Aplysia. Am Zool 1999; 39(5): 109A-109A. **(0)**

- 7. Yu B, Gamkrelidze GN, **Laurienti PJ**, Blankenship JE. Serotonin directly increases a calcium current in swim motoneurons of Aplysia brasiliana. Am Zool 2001; 41: 1009-1025. **(5)**
- 8. Laurienti PJ, Burdette JH, Wallace MT, Yen Y-F, Field AS, Stein BE. Deactivation of sensory-specific cortex by cross-modal stimuli. J Cogn Neuroscience 2002; 14: 420-429. (288)
- 9. Maldjian JA, Driskill L, **Laurienti PJ**, Burdette JH. Multiple reproducibility indices for evaluation of cognitive functional MR imaging paradigms. AJNR Am J Neuroradiol 2002; 23: 1030-1037. **(31)**
- 10. Laurienti PJ, Field AS, Burdette JH, Maldjian JA, Yen Y-F, Moody DM. Dietary caffeine consumption modulates fMRI measures. NeuroImage 2002; 17: 751-757. (97)
- 11. Field AS, **Laurienti PJ**, Yen Y-F, Burdette JH, Moody DM. Dietary caffeine consumption and withdrawal: confounding variables in quantitative cerebral perfusion studies? Radiology 2003; 227: 129-135. **(83)**
- 12. **Laurienti PJ**, Wallace MT, Maldjian JA, Susi CA, Stein BE, Burdette JH. Cross-modal sensory processing in the anterior cingulate and medial prefrontal cortices. Human Brain Mapping 2003; 19: 213-223. **(84)**
- 13. Koyama T, McHaffie JG, **Laurienti PJ**, Coghill RC. The single-epoch fMRI design: validation of a simplified paradigm for the collection of subjective ratings. NeuroImage 2003; 19: 976-987. **(28)**
- 14. 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: 1233-1239. **(4332)**
- 15. **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. Am J Neuroradiology 2003; 24: 1607-1611. **(58)**
- 16. Hairston WD, **Laurienti PJ**, Mishra G, Burdette JH, Wallace MT. Multisensory enhancement of localization under conditions of induced myopia. Exp Brain Res 2003; 152: 404-408. **(64)**
- 17. **Laurienti PJ**, Burdette JH, Maldjian JA. Separating neural processes using mixed event-related and epoch-based fMRI paradigms. J Neuroscience Methods 2003; 131: 41-50. **(12)**
- 18. Maldjian JA, **Laurienti PJ**, Burdette JH. Precentral gyrus discrepancy in digital versions of the Talairach Atlas. NeuroImage 2004; 21: 450-455. **(742)**
- 19. 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: 405-414. (213)
- 20. Whitlow CT, Liguori A, Livengood LB, Hart SL, Mussat-Whitlow BJ, Lamborn CM, **Laurienti PJ**, Porrino LJ. Long-term heavy marijuana users make costly decisions on a gambling task. Drug Alcohol Depend 2004; 76: 107-111. **(192)**

- 21. **Laurienti PJ**. Deactivations, global signal, and the default mode of brain function. J Cogn Neuroscience 2004; 16: 1481-1483. **(24)**
- 22. **Laurienti PJ**, Perrault TJ, Stanford TR, Wallace MT, Stein BE. On the use of superadditivity as a metric for characterizing multisensory integration in functional neuroimaging studies. Exp Brain Res 2005; 166: 289-297. **(130)**
- 23. Koyama T, McHaffie JG, Laurienti PJ, Coghill RC. The subjective experience of pain: Where expectations become reality. PNAS 2005; 102(36): 12950-12955. (470)
- 24. Perrier ND, Coker LH, Rorie KD, Burbank NS, Kirkland KA, Passmore LV, Tembreull T, Stump DA, **Laurienti PJ**. Functional MRI of the Brain May be the Ideal Tool for Evaluating Neuropsychologic and Sleep Complaints of Patients with Primary Hyperparathyroidism. World Journal of Surgery 2006; 30(5): 686-696. **(23)**
- 25. Laurienti PJ, Burdette JH, Maldjian JA, Wallace MT. Enhanced Multisensory Integration in Older Adults. Neurobiology Aging. 2006; 27(8): 1155-1163. (333)
- 26. Ryali S, Casanova R, **Laurienti PJ**, Peiffer AM, Maldjian JA. Estimation of False Discovery Rates for Wavelet-Denoised Statistical Parametric Maps. Neuroimage 2006; 33(1): 72-84. **(5)**
- 27. 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(1): 137-143. (259)
- 28. Wyatt CL, Laurienti PJ. Nonrigid registration of images with different topologies using embedded maps. Conf Proc IEEE Eng Med Biol Soc 2006; 1: 4823-4827. (8)
- 29. Peiffer AM, Mozolic JL, Hugenschmidt CE, **Laurienti PJ**. Age-related Multisensory Enhancement in a Simple Audiovisual Detection Task. NeuroReport. 2007; 18(10): 1077-1081. **(147)**
- 30. Hayasaka S, Peiffer AM, Hugenschmidt CE, **Laurienti PJ**. Power and sample size calculation for neuroimaging studies by noncentral random field theory. NeuroImage 2007; 37(3): 721-730. **(70)**
- 31. 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(2): 433-442. (120)
- 32. Mozolic JL, Hugenschmidt CE, Peiffer AM, **Laurienti PJ**. Modality–specific selective attention attenuates multisensory integration. Exp Brain Research 2008; 184(1): 39-52. **(107)**
- 33. Maldjian JA, **Laurienti PJ**, Burdette JH, Kraft RA. Clinical Implementation of Spin Tag Perfusion MRI. JCAT 2008 32(3): 403-406. **(16)**
- 34. Casanova R, Ryali S, Serences J, Yang L, Kraft R, **Laurienti PJ**, Maldjian JA. The impact of temporal regularization on estimates of the BOLD hemodynamic response function: a comparative analysis. NeuroImage 2008; 40: 1606-1618. **(32)**

- 35. Mozolic JL, Joyner D, Hugenschmidt CE, Peiffer AM, Kraft RA, Maldjian JA, **Laurienti PJ**. Cross-modal deactivations during modality-specific selective attention. BMC Neurology 2008; 8: 35. **(91)**
- 36. Peiffer AM, Hugenschmidt CE, **Laurienti PJ**. Fostering a culture of responsible lab conduct. Science 2008; 322(5905): 1186. **(15)**
- 37. Peiffer AM, Maldjian JA, **Laurienti PJ**. Resurrecting Brinley Plots for a Novel Use: Metaanalyses of Functional Brain Imagining Data in Older Adults. International Journal of Biomedical Imaging 2008; 2008(1): 1-7. **(2)**
- 38. Casanova R, Yang L, Hairston WD, **Laurienti PJ**, Maldjian JA. Evaluating the impact of spatio-temporal smoothness constraints on the BOLD hemodynamic response function estimation: an analysis based on Tikhonov regularization. Physiol Meas. 2009; 30(5): N37-51. **(8)**
- 39. 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): 228-240. **(56)**
- 40. Addicott MA, Yang LL, Peiffer AM, **Laurienti PJ**. Methodological considerations for the quantification of self-reported caffeine use. Psychopharmacology 2009; 203(3): 571-578. (27)
- 41. Hugenschmidt CE, Mozolic JL, Tan H, Kraft RA, **Laurienti PJ**. Age-Related Increase in Cross-Sensory Noise in Resting and Steady-State Cerebral Perfusion. Brain Topogr. 2009; 21(3-4): 241-251. **(22)**
- 42. Hugenschmidt CE, Peiffer AM, McCoy TP, Hayasaka S, **Laurienti PJ**. Preservation of crossmodal selective attention in healthy aging. Exp Brain Res. 2009; 198(2-3): 273-285. **(32)**
- 43. 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? Hum Brain Mapp. 2009; 30(10): 3102-3114. **(113)**
- 44. Hugenschmidt CE, Mozolic JL, **Laurienti PJ**. Suppression of multisensory integration by modality-specific attention in aging. Neuroreport 2009; 20(4): 349-353. **(76)**
- 45. 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. **(5)**
- 46. Addicott MA and **Laurienti PJ**. A comparison of the effects of caffeine following abstinence and normal caffeine use. Psychopharmacology 2009; 207(3): 423-431. **(42)**
- 47. Hugenschmidt CE, Hayasaka S, Peiffer AM, Laurienti PJ. Applying capacity analyses to psychophysical evaluation of multisensory interactions. Information Fusion 2010; 11(1): 12-20. (13)
- 48. Hayasaka S, **Laurienti PJ**. Comparison of characteristics between region-and voxel-based network analyses in resting-state fMRI data. Neuroimage 2010; 50(2): 499-408. **(283)**

- 49. Mozolic JL, Hayaska S, **Laurienti PJ**. A cognitive training intervention increases resting cerebral blood flow in healthy older adults. Front. Hum. Neurosci. 2010; 4:16. **(104)**
- 50. 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. **(210)**
- 51. Stein BE, Burr D, Constantinidis C, **Laurienti PJ**, Alex Meredith M, Perrault TJ Jr, Ramachandran R, Röder B, Rowland BA, Sathian K, Schroeder CE, Shams L, Stanford TR, Wallace MT, Yu L, Lewkowicz DJ. Semantic confusion regarding the development of multisensory integration: a practical solution. Eur J Neurosci. 2010; 31(10): 1713-1720. **(94)**
- 52. Joyce KE, **Laurienti PJ**, Burdette JH, Hayasaka S. A new measure of centrality for brain networks. PLoS ONE 2010; 5:8. **(208)**
- 53. Telesford QK, Morgan AR, Hayasaka S, Simpson SL, Barret W, Kraft RA, Mozolic JL, Laurienti PJ. Reproducibility of graph metrics in fMRI networks. Front. Neuroinform. 2010; 4:117. (110)
- 54. Presley TD, Morgan AR, Bechtold E, Clodfelter W, Dove RW, Jennings JM, Kraft RA, 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: Biology and Chemistry Nitric Oxide. 2011; 24(1):34-42. (167)
- 55. Peiffer AM, Hugenschmidt CE, Laurienti PJ. Ethics in 15 min per Week. Sci Eng Ethics 2011; 17(2): 289-297. (12)
- 56. Hanlon CA, Wesley MJ, Stapleton JR, **Laurienti PJ**, Porrino LJ. The association between frontal-striatal connectivity and sensorimotor control in cocaine users. Drug Alcohol Depend. 2011; 115(3): 240-243. **(38)**
- 57. Mozolic, JL, Long AB, Morgan AR, Rawley-Payne M, **Laurienti PJ**. A cognitive training intervention improves modality-specific attention in a randomized controlled trial of healthy older adults. Neurobiol Aging 2011; 32(4): 655-68. **(96)**
- 58. Hayasaka S, Hugenschmidt CE, **Laurienti PJ**. A Network of Genes, Genetic Disorders, and Brain Areas. PLoS ONE 2011; 6(6): e20907. **(11)**
- 59. Laurienti PJ, Joyce KE, Telesford QK, Burdette JH, Hayasaka S. Universal fractal scaling of self-organized networks. Physica A 2011; 390: 3608-13. 1016/j.physa.2011.05.011 (38)
- 60. Moussa MN, Vechlekar CD, Burdette JH, Steen MR, Hugenschmidt CE, **Laurienti PJ**. Changes in cognitive state alter human functional brain networks. Front. Human Neuroscience 2011; 5: 1-15. **(78)**
- 61. Steen M, Hayasaka S, Joyce K, **Laurienti PJ**. Assessing the consistency of community structure in complex networks. Physical Review E 2011; 84:016111. **(54)**
- 62. Simpson SL, Hayasaka S, **Laurienti PJ**. Exponential random graph modeling for complex brain networks. PLoS ONE 2011; 6(5): e20039. **(69)**

- 63. Telesford QK, Simpson SL, Burdette JH, Hayasaka S, **Laurienti PJ**. The brain as a complex system: Using network science as a tool for understanding the brain. Brain Connectivity 2011; 1(4): 295-308. **(163)**
- 64. Li X, Long X, **Laurienti PJ**, Wyatt C. Registration of Images With Varying Topology Using Embedded Maps. IEEE Trans Med Imaging 2011; 31(3): 749-765. **(8)**
- 65. Telesford QK, Joyce KE, Hayasaka S, Burdette JH, **Laurienti PJ**. The ubiquity of small-world networks. Brain Connectivity 2011; 1(5): 367-375. **(279)**
- 66. Rejeski WJ, Burdette JH, Burns M, Morgan AR, Hayasaka S, Norris J, Williamson D, Laurienti PJ. Power of Food Moderates Food Craving, Perceived Control, and Brain Networks Following a Short-Term Post-Absorptive State in Older Adults. Appetite 2012; 58(3): 806-813. (27)
- 67. Simpson SL, Moussa MN, **Laurienti PJ.** An exponential random graph modeling approach to creating group-based representative whole-brain connectivity networks. Neuroimage. 2012; 60(2): 1117-1126. **(76)**
- 68. Wilkins RW, Hodges DA, **Laurienti PJ**, Steen MR, Burdette JH. Network Science: A New Method for Investigating the Complexity of Musical Experiences in the Brain. Leonardo Transactions 2012; 45(3): 282-283. **(6)**
- 69. Addicott MA, Peiffer AM, **Laurienti PJ**. The effects of dietary caffeine use and abstention on blood oxygen level dependent activation and cerebral blood flow. Journal of Caffeine Research 2012; 2(1): 15-22. **(3)**
- 70. Paolini B, Burdette JH, **Laurienti PJ**, Morgan AR, Williamson DA, Rejeski WJ. Coping with brief periods of food restriction: mindfulness matters. Front Aging Neurosci. 2012; 4:13. **(15)**
- 71. Joyce KE, Hayasaka S, **Laurienti PJ**. A Genetic Algorithm for Controlling an Agent-Based Model of the Functional Human Brain. ISA Conference Proceedings for RMBS 2012; 48:210-217. **(12)**
- 72. Joyce KE, **Laurienti PJ**, Hayasaka S. Complexity in a brain-inspired agent-based model. Neural Networks 2012; 33:275-90. **(7)**
- 73. Moussa MN, Steen MR, Laurienti PJ, Hayasaka S. Consistency of network modules in resting-state FMRI connectome data. PLoS One. 2012;7(8):e44428. (117)
- 74. Koch KR, Peiffer AM, **Laurienti PJ**. Convergence of Two Independent Roads Leads to: Collaboration Among Education and Neuroscience. Psychology in the Schools 2013; 50(6): 577-588. **(4)**
- 75. Joyce KE, Hayasaka S, **Laurienti PJ.** The human functional brain network demonstrates structural and dynamical resilience to targeted attack. PLoS Comput Biol. 2013; 9(1):e1002885. Epub 2013 Jan 24. **(54)**
- 76. Telesford QK, Burdette JH, **Laurienti PJ**. An exploration of graph metric reproducibility in complex brain networks. Front in Neuroscience 2013; 7:67 **(32)**

- 77. Rzucidlo JK, Roseman PL, **Laurienti PJ**, Dagenbach D. Stability of Whole Brain and Regional Network Topology within and between Resting and Cognitive States. PLoS One. 2013; 8(8):e70275. doi: 10.1371/journal.pone.0070275. **(29)**
- 78. Telesford QK, **Laurienti PJ**, Friedman DP, Kraft RA, Daunais JB.The Effects of Alcohol on the Nonhuman Primate Brain: A Network Science Approach to Neuroimaging. Alcohol Clin Exp Res. 2013; 37(11):1891-900. **(7)**
- 79. Simpson SL, Lyday RG, Hayasaka S, Marsh AP, **Laurienti PJ**. A permutation testing framework to compare groups of brain networks. Front Comput Neurosci. 2013; 7(171). doi: 10.3389/fncom.2013.00171 **(52)**
- 80. Stanley ML, Moussa MN, Paolini B, Lyday RG, Burdette JH, Laurienti PJ. Defining Nodes in Complex Brain Networks. Front Comput Neurosci. 2013; 7:169 (134)
- 81. Bullins J, **Laurienti PJ**, Morgan AR, Norris J, Paolini B, Rejeski WJ. Drive for Consumption, Craving, and Connectivity in the Visual Cortex during the Imagery of Desired Food. Frontiers in Neuroscience and Aging 2013; 5(77). doi: 10.3389/fnagi.2013.00077 **(16)**
- 82. Voss MW, Wong CN, Baniqued PL, Burdette JH, Erickson KI, Prakash RS, McAuley E, Laureinti PJ, Kramer AF. Aging Brain from a Network Science Perspective: Something to Be Positive About? PLoS One 2013; 8(11): e78345. doi: 10.1371/journal.pone.0078345. (7)
- 83. Simpson SL, Bowman FD, **Laurienti PJ**. Analyzing complex functional brain networks: fusing statistics and network science to understand the brain. Stat. Surveys 2013; 7: 1–36. doi 10.1214/13-SS103 **(89)**
- 84. Paolini B, **Laurienti PJ**, Norris J, and Rejeski WJ. Meal Replacement: Calming the Hot-State Brain Network of Appetite. Frontiers in Psychology 2014; 5: 249. doi: 10.3389/fpsyg.2014.00249 (18)
- 85. Moussa MN, Wesley MJ, Porrino LJ, Hayasaka S, Bechara A, Burdette JH, **Laurienti PJ**. Age-related differences in advantageous decision-making are associated with distinct differences in functional community structure. Brain Connect. 2014; 4(3):193-202. doi: 10.1089/brain.2013.0184 **(9)**
- 86. Hugenschmidt CE, Burdette JH, Morgan AR, Williamson JD, Kritchevsky SB, **Laurienti PJ**. Graph Theory Analysis of Functional Brain Networks and Mobility Disability in Older Adults. Journal of Gerontology: Medical Sciences 2014; 69(11):1399-406. doi: 10.1093/gerona/glu048 **(20)**
- 87. Peiffer AM, **Laurienti PJ**, Koch KR, Timmerman LC. Merging the Wechsler Adult Intelligence Scale Picture Completion Subtest with fMRI in Adult Learners: a Pilot Study. International Journal of Innovative Technology and Exploring Engineering (IJITEE) 2014; 3(11): 2278-3075. **(1)**
- 88. Batson G, Migliarese S, Soriano C, Burdette JH, **Laurienti PJ**. Effects of Improvisational Dance on Balance in Parkinson's Disease: A Two-Phase fMRI Case Study. Physical & Occupational Therapy In Geriatrics 2014; 32(3): 188-197. doi: 10.3109/02703181.2014.927946 (17)

- 89. Pritchard WS, **Laurienti PJ**, Burdette JH, Hayasaka S. Functional brain networks formed using cross-sample entropy are scale-free. Brain Connect. 2014; 4(6):454-64. doi: 10.1089/brain.2013.0217. **(16)**
- 90. Wilkins RW, Hodges DA, **Laurienti PJ**, Steen M, Burdette JH. Network science and the effects of music preference on functional brain connectivity: from Beethoven to Eminem. Nature Sci Rep. 2014; 4:6130. doi: 10.1038/srep06130. **(81)**
- 91. Stanley ML, Dagenbach D, Lyday RG, Burdette JH, **Laurienti PJ**. Changes in global and regional modularity associated with increasing working memory load. Front. Hum. Neurosci. 8:954. doi:10.3389/fnhum.2014.00954 **(52)**
- 92. Liu C, Wajih N, Liu X, Basu S, Janes J, Marvel M, Keggi C, Helms CC, Lee AN, Belanger AM, Diz DI, **Laurienti PJ**, Caudell DL, Wang J, Gladwin MT, Kim-Shapiro DB. Mechanisms of Human Erythrocytic Bioactivation of Nitrite. Journal of Biological Chemistry 2014; 290(2): 1281-94. doi: 10.1074/jbc.M114.609222. **(62)**
- 93. Moussa MN, Simpson SL, Mayhugh RE, Grata ME, Burdette JH, Porrino LJ, **Laurienti PJ**. Long-term moderate alcohol consumption does not exacerbate age-related cognitive decline in healthy, community-dwelling older adults. Front. Aging Neurosci. 2015. 6:341. doi: 10.3389/fnagi.2014.0034 (13)
- 94. Simpson SL, **Laurienti PJ**. A two-part mixed-effects modeling framework for analyzing whole-brain network data. Neuroimage. 2015; 113: 310-319. doi:10.1016/j.neuroimage. 2015.03.021 **(30)**
- 95. Telesford QK, **Laurienti PJ**, Davenport AT, Friedman DP, Kraft RA, Daunais JB. The effects of chronic alcohol self-administration in nonhuman primate brain networks. Alcohol Clin Exp Res. 2015; 39(4):659-71. doi: 10.1111/acer.12688. **(7)**
- 96. Stanley ML, Simpson SL, Dagenbach D, Lyday RG, Burdette JH, **Laurienti PJ**. Changes in Brain Network Efficiency and Working Memory Performance in Aging. PLoS One. 2015;10(4):e0123950. doi: 10.1371/journal.pone.0123950. **(68)**
- 97. Paolini BM, **Laurienti PJ**, Simpson SL, Burdette JH, Lyday RG, Rejeski WJ. Global Integration of the Hot-State Brain Network of Appetite Predicts Short Term Weight Loss in Older Adult. Front. Aging Neurosci. 2015; doi.org/10.3389/fnagi.2015.00070 **(14)**
- 98. Arcury TA, Laurienti PJ, Talton JW, Chen H, Howard TD, Summers P, Quandt SA. Urinary Cotinine Levels Among Latino Tobacco Farmworkers in North Carolina Compared to Latinos Not Employed in Agriculture. Nicotine Tob Res. 2016; 18 (6): 1517-1525. doi: 10.1093/ntr/ntv187 (8)
- 99. Sorond FA, Cruz-Almeida Y, Clark DJ, Viswanathan A, Scherzer CR, De Jager P, Csiszar A, Laurienti PJ, Hausdorff J, Chen WG, Ferrucci L, Rosano C, Studenski SA, Black SE, Lipsitz LA. Aging, the Central Nervous System, and Mobility in Older Adults: Neural Mechanisms of Mobility Impairment. J Gerontol A Biol Sci Med Sci. 2015; 70(12):1526-1532. doi: 10.1093/gerona/glv130 (76)
- Simpson SL, Laurienti PJ. Disentangling Brain Graphs: A Note on the Conflation of Network and Connectivity Analyses. Brain Connect. 2016; 6(2): 95-98. doi:10.1089/brain.2015.0361 (18)

- 101. Sunwook K, Nussbaum MA, Quandt SA, Laurienti PJ, Arcury TA. Effects of Lifetime Occupational Pesticide Exposure on Postural Control Among Farmworkers and Non-Farmworkers. J Occ Environ Med 2016; 58(2): 133-139. doi: 10.1097/JOM.0000000000000655 (3)
- 102. Arcury TA, Talton JW, Summers P, Chen H, **Laurienti PJ**, Quandt SA. Alcohol Consumption and Risk for Dependence Among Male Latino Migrant Farmworkers Compared to Latino Nonfarmworkers in North Carolina. Alcoholism, Clinical and Exp Res 2016; 40(2): 377-384. doi: 10.1111/acer.12969 **(21)**
- 103. Espeland MA, Erickson K, Neiberg RH, Jakicic JM, Wadden TA, Wing RR, Desiderio L, Erus G, Hsieh MK, Davatzikos C, Maschak-Carey BJ, Laurienti PJ, Demos-McDermott K, Bryan RN; Action for Health in Diabetes Brain Magnetic Resonance Imaging (Look AHEAD Brain) Ancillary Study Research Group. Brain and White Matter Hyperintensity Volumes After 10 Years of Random Assignment to Lifestyle Intervention. Diabetes Care. 2016; 39(5):764-71. doi: 10.2337/dc15-2230 (68)
- 104. Bolt TS, **Laurienti PJ**, Lyday RG, Morgan A, Dagenbach D. Graph-Theoretical Study of Functional Changes Associated with the Iowa Gambling Task. Front. Hum. Neurosci. 2016; 10:314. doi: 10.3389/fnhum.2016.00314 **(10)**
- 105. **Laurienti PJ**, Burdette JH, Talton J, Pope CN, Summers P, Walker FO, Quandt SA, Lyday RG, Chen H, Howard TD, Arcury TA. Brain Anatomy in Latino Farmworkers Exposed to Pesticides and Nicotine. J Occup Environ Med. 2016 May;58(5):436-43. doi: 10.1097/JOM.0000000000000712 **(5)**
- 106. Mayhugh RE, Moussa MN, Simpson SL, Lyday RG, Burdette JH, Porrino LJ, Laurienti PJ. Moderate-Heavy Alcohol Consumption Lifestyle in Older Adults Is Associated with Altered Central Executive Network Community Structure during Cognitive Task. PLoS One. 2016; 11(8):e0160214. doi: 10.137 (19)
- 107. Mokhtari F, Paolini BM, Burdette JH, Marsh AP, Rejeski WJ, Laurienti PJ. Baseline grayand white-matter volume predict successful weight loss in the elderly. Obesity (Silver Spring) 2016; 24(12):2475-2480. doi: 10.1002/oby.21652 (6)
- 108. Arcury TA, Laurienti PJ, Chen H, Howard TD, Barr DB, Mora DC, Summer P, Quandt SA. Organophosphate Pesticide Urinary Metabolites Among Latino Immigrants: North Carolina Farmworkers and Non-farmworkers Compared. J Occup Environ Med. 2016; 58(11):1079-1086. (25)
- 109. Petrie M, Rejeski WJ, Basu S, **Laurienti PJ**, Marsh AP, Norris JL, Kim-Shapiro DB, Burdette JH. Beet Root Juice: An Ergogenic Aid for Exercise and the Aging Brain. J Gerontol A Biol Sci Med Sci, 2016, Vol. 00, No. 00, 1–6 doi:10.1093/gerona/glw219 (13)
- 110. Casanova R, Hayasaka S, Saldana S, Bryan NR, Demos KE, Desiderio L, Erickson KI, Espeland MA, Nasrallah IM, Wadden T, Laurienti PJ; Action for Health In Diabetes Brain Magnetic Resonance Imaging Look AHEAD Brain Ancillary Study Research Group. Relative differences in resting-state brain connectivity associated with long term intensive lifestyle intervention. Psychoneuroendocrinology. 2016; 74:231-239. doi: 10.1016/j.psyneuen.2016.09.016. (5)

- 111. Geib BR, Stanley ML, Wing EA, **Laurienti PJ**, Cabeza R. Hippocampal Contributions to the Large-Scale Episodic Memory Network Predict Vivid Visual Memories. Cereb Cortex 2017 Nov 1. pii: bhv272 (27)
- 112. Shaltout H, Eggebeen J, **Laurienti PJ**, Burdette JH, Basu S, Morgan AR, Miller GD, Rejeski WJ, Hawfield A, Diz D, Becton JT, Kim-Shapiro DB, Kitzman DW. Effects of supervised exercise and dietary nitrate in older adults with controlled hypertension and/or heart failure with preserved ejection fraction. Nitric Oxide 2017. doi.org/10.1016/j.niox.2017.05.005 (42)
- 113. Arcury TA, Chen H, Laurienti PJ, Howard TD, Barr DB, Mora DC, Quandt SA. Farmworker and Non-Farmworker Latino Immigrant Men in North Carolina have High Levels of Specific Pesticide Urinary Metabolites. Archives of Environmental and Occupational Health 2017; doi: 10.1080/19338244.2017.1342588. (13)
- 114. Bahrami M, **Laurienti PJ**, Quandt SA, Talton J, Pope CN, Summers P, Burdette JH, Chen H, Liu J, Howard TD, Arcury TA, Simpson SL. The Impacts of Pesticide and Nicotine Exposures on Functional Brain Networks in Latino Immigrant workers. Neurotoxicology. 2017; doi: 10.1016/j.neuro.2017.06.001. **(16)**
- 115. Shaaban CE, Aizenstein HJ, Jorgensen DR, MacCloud RL, Meckes NA, Erickson KI, Glynn NW, Mettenburg J, Guralnik J, Newman AB, Ibrahim TS, **Laurienti PJ**, Vallejo AN, Rosano C. In Vivo Imaging of Venous Side Cerebral Small-Vessel Disease in Older Adults: An MRI Method at 7T. AJNR Am J Neuroradiol. 2017; doi: 10.3174/ajnr.A5327. **(35)**
- 116. Vidi PA, Anderson KA, Chen H, Anderson R, Salvador-Moreno N, Mora DC, Poutasse C, **Laurienti PJ**, Daniel SS, Arcury TA. Personal samplers of bioavailable pesticides integrated with a hair follicle assay of DNA damage to assess environmental exposures and their associated risks in children. Mutat Res Gen Tox En 2017 Oct;822:27-33. doi: 10.1016/j.mrgentox.2017.07.003. **(31)**
- 117. Arcury TA, **Laurienti PJ**, Talton JW, Chen H, Howard TD, Barr DB, Mora DC, Quandt SA Pesticide Urinary Metabolites Among Latina Farmworkers and Non-Farmworkers in North Carolina. J Occup Environ Med. 2018; 60(1): e63-e71. doi: 10.1097/JOM.00000000001189.(15)
- 118. Kim S, Nussbaum MA, **Laurienti PJ**, Chen H, Quandt SA, Barr DB, Arcury TA. Exploring Associations Between Postural Balance and Levels of Urinary Organophosphorus Pesticide Metabolites. J Occup Environ Med. 2018; 60(2):174-179 (1)
- 119. Espeland MA, Luchsinger JA, Neiberg RH, Carmichael O, **Laurienti PJ**, Pi-Sunyer X, Wing RR, Cook D, Horton E, Casanova R, Erickson K, Bryan RN, and for the Action for Health in Diabetes Brain Magnetic Resonance Imaging Research Group. Long-Term Impact Of Intensive Lifestyle Intervention On Cerebral Blood Flow. Journal of the American Geriatrics Society 2017. doi: 10.1111/jgs.15159. **(21)**
- 120. Arcury TA, Sandberg JC, Talton JW, **Laurienti PJ**, Daniel SS, Quandt SA. Mental Health Among Latina Farmworkers and Other Employed Latinas in North Carolina. Rural Ment Health. 2018; 42(2): 89-101. doi: 10.1037/rmh0000091 (35)
- 121. Mokhtari F, Rejeski WJ, Zhu Y, Wu G, Simpson SL, Burdette JH, **Laurienti PJ**. Dynamic fMRI networks predict success in a behavioral weight loss program among older adults. Neuroimage 2018; 173:421-433. doi: 10.1016/j.neuroimage.2018.02.025. **(24)**

- 122. Mayhugh RE, Rejeski WJ, Petrie MR, **Laurienti PJ**, Gauvin L. Differing patterns of stress and craving across the day in moderate-heavy alcohol consumers during their typical drinking routine and an imposed period of alcohol abstinence. PLoS One. 2018; 13(4):e0195063. doi: 10.1371/journal.pone.0195063. **(18)**
- 123. Mayhugh RE, **Laurienti PJ**, Fanning J, Gauvin L, Heilman KJ, Porges SW, Rejeski WJ. Cardiac vagal dysfunction moderates patterns of craving across the day in moderate to heavy consumers of alcohol. PLoS One. 2018;13(7): e0200424. doi: 10.1371/journal.pone.0200424. eCollection 2018. **(5)**
- 124. Bahrami M, Laurienti PJ, Simpson SL. A Matlab Toolbox for Multivariate Analysis of Brain Networks. Human Brain Mapping. 2019; 40(1): doi: 10.1002/hbm.24363. (12)
- 125. Simpson SL, Bahrami M, **Laurienti PJ**. A Mixed Modeling Framework For Analyzing Multitask Whole-Brain Network Data. Network Neuroscience. 2019; 3(2):175-186. doi.org/10.1002/hbm.24363 **(12)**
- 126. Lee SW, **Laurienti PJ**, Burdette JH, Tegeler CL, Morgan AR, Simpson SL, Gerdes L, Tegeler CH. Functional Brain Network Changes Following Use of an Allostatic, Closed-Loop, Acoustic Stimulation Neurotechnology for Military-Related Traumatic Stress. J Neuroimaging. 2019; 29(1): 70-78. doi: 10.1111/jon.12571. **(7)**
- 127. Shaaban CE, Aizenstein HJ, Jorgensen DR, Mahbubani RLM, Meckes NA, Erickson KI, Glynn NW, Mettenburg J, Guralnik J, Newman AB, Ibrahim TS, **Laurienti PJ**, Vallejo AN, Rosano C. Physical Activity and Cerebral Small Vein Integrity in Older Adults. Med Sci Sports Exerc. 2019 Aug;51(8):1684-1691. doi: 10.1249/MSS.0000000000001952. **(4)**
- 128. Mokhtari F, Laurienti PJ, Rejeski WJ, Ballard G. Dynamic Functional Magnetic Resonance Imaging Connectivity Tensor Decomposition: A New Approach to Analyze and Interpret Dynamic Brain Connectivity. Brain Connect. 2019; 9(1): 95-112. doi: 10.1089/brain.2018.0605 (7)
- 129. Bahrami M, **Laurienti PJ**, Simpson SL. Analysis of brain subnetworks within the context of their whole-brain networks. Hum Brain Mapp 2019; 40(17):5123-5141. doi: 10.1002/hbm.24762 **(9)**
- 130. Mokhtari F, Akhlaghi MI, Simpson SL, Wu G, **Laurienti PJ**. Sliding window correlation analysis: Modulating window shape for dynamic brain connectivity in resting state. NeuroImage 2019;189: 655-666. doi.org/10.1016/j.neuroimage.2019.02.001. **(32)**
- 131. Arcury TA, Furgurson KF, O'Hara HM, Miles K, Chen H, **Laurienti PJ**. Conventional and Complementary Therapy Use among Mexican Farmworkers in North Carolina: Applying the I-CAM-Q. J Agromedicine. 2019; 24(3):257-267. doi: 10.1080/1059924X.2019.1592049. **(8)**
- 132. Dixon HM, Armstrong G, Barton M, Bergmann AJ, Bondy M, Halbleib ML, Hamilton W, Haynes E, Herbstman J, Hoffman P, Jepson P, Kile ML, Kincl L, **Laurienti PJ**, North P10, Paulik LB1, Petrosino J, Points GL 3rd, Poutasse CM, Rohlman D, Scott RP, Smith B, Tidwell LG, Walker C, Waters KM, Anderson KA. Discovery of common chemical exposures across three continents using silicone wristbands. R Soc Open Sci. 2019; 6(2): 181836. doi: 10.1098/rsos.181836. **(53)**
- 133. Peterson H, Simpson SL, **Laurienti PJ**. Wake Forest Alcohol Imagery Set: Development and Validation of a Large Standardized Alcohol Imagery Dataset. Alcohol Clin Exp Res.

- 2019; 43(12): 2559-2567. doi: 10.1111/acer.14214. (5)
- 134. Bahrami M, Lyday RG, Casanova R, Burdette JH, Simpson SL, **Laurienti PJ**. Using Low-Dimensional Manifolds to Map Relationships Between Dynamic Brain Networks. Front Hum Neurosci. 2019 Dec 10;13:430. doi: 10.3389/fnhum.2019.00430. **(7)**
- 135. Quandt SA, Mora DC, Seering TL, Chen H, Arcury TA, Laurienti PJ. Using Life History Calendars to Estimate in Utero and Early Life Pesticide Exposure of Latinx Children in Farmworker Families. Int J Environ Res Public Health. 2020 May 16;17(10):3478. doi: 10.3390/ijerph17103478. (13)
- 136. Quandt SA, LaMonto NJ, Mora DC, Talton JW, **Laurienti PJ**, Arcury TA. COVID-19 Pandemic among Latinx Farmworker and Nonfarmworker Families in North Carolina: Knowledge, Risk Perceptions, and Preventive Behaviors. Int J Environ Res Public Health. 2020 Aug 10;17(16):E5786. doi: 10.3390/ijerph17165786. **(41)**
- 137. Quandt SA, LaMonto NJ, Mora DC, Talton JW, **Laurienti PJ**, Arcury TA. COVID-19 Pandemic Among Immigrant Latinx Farmworker and Non-farmworker Families: A Rural-Urban Comparison of Economic, Educational, Healthcare, and Immigration Concerns. medRxiv. 2020 Nov 3. doi: 10.1101/2020.10.30.20223156. **(26)**
- 138. Burdette JH, **Laurienti PJ**, Miron LL, Bahrami M, Simpson SL, Nicklas BJ, Fanning J, Rejeski WJ. Functional Brain Networks: Unique Patterns with Hedonic Appetite and Confidence to Resist Eating in Older Adults with Obesity. Obesity (Silver Spring). 2020 Dec;28(12):2379-2388. doi: 10.1002/oby.23004. **(5)**
- 139. Arcury TA, Chen H, Quandt SA, Talton JW, Anderson KA, Scott RP, Jensen A, **Laurienti PJ**. Pesticide Exposure Among Latinx Children: Comparison of Children in Rural, Farmworker and Urban, Non-Farmworker Communities. Science of the Total Environment 2021 Dec 29;763:144233. doi: 10.1016/j.scitotenv.2020.144233. **(21)**
- 140. Chen J, Han G, Cai H, Yang D, **Laurienti PJ**, Styner M, Wu G. Learning Common Harmonic Waves on Stiefel Manifold A New Mathematical Approach for Brain Network Analyses. IEEE Trans Med Imaging. 2021 Jan;40(1):419-430. doi: 10.1109/TMI.2020.3029063. **(9)**
- 141. Dagenbach DE, Tegeler CH, Morgan AR, **Laurienti PJ**, Tegeler CL, Lee SW, Gerdes L, Simpson SL. Effects of an Allostatic Closed-Loop Neurotechnology (HIRREM) on Brain Functional Connectivity Laterality in Military-Related Traumatic Stress J Neuroimaging. 2021. doi: 10.1111/jon.12825. **(1)**
- 142. Neyland BR, Hugenschmidt CE, Lyday RG, Burdette JH, Baker LD, Rejeski WJ, Miller ME, Kritchevsky SB, Laurienti PJ. Effects of a Motor Imagery Task on Functional Brain Network Community Structure in Older Adults: Data from the Brain Networks and Mobility Function (B-NET) Study. Brain Sciences.2021;11(1):118. doi: 10.3390/brainsci11010118. (3)
- 143. Lin Y, Yang D, Hou J, Yan C, Kim M, **Laurienti PJ**, Wu G. Learning dynamic graph embeddings for accurate detection of cognitive state changes in functional brain networks. Neuroimage. 2021 Apr 15;230:117791. doi: 10.1016/j.neuroimage.2021.117791. **(7)**
- 144. Peterson H, Mayhugh RE, Bahrami M, Rejeski WJ, Simpson SL, Heilman K, Porges SW, Laurienti PJ. Influence of Heart Rate Variability on Abstinence-Related Changes in Brain State in Everyday Drinkers. Brain Sci. 2021, 11, 817. doi: 10.3390/ brainsci11060817 (4)

- 145. Yang D, Chen J, Yan C, Kim M, Laurienti PJ, Styner M, Wu G. Group-wise Hub Identification by Learning Common Graph Embeddings on Grassmannian Manifold. IEEE Trans Pattern Anal Mach Intell. 2021 May 19;PP. doi: 10.1109/TPAMI.2021.3081744. (4)
- 146. Yang D, Zhu X, Yan C, Peng Z, Bagonis M, **Laurienti PJ**, Styner M, Wu G. Joint hub identification for brain networks by multivariate graph inference. Med Image Anal. 2021 Jul 7;73:102162. doi: 10.1016/j.media.2021.102162. **(3)**
- 147. Dobbins DL, Berenson LM, Chen H, Quandt SA, Laurienti PJ, Arcury TA. Adverse Childhood Experiences Among Low-Income, Latinx Children in Immigrant Families: Comparison of Children in Rural Farmworker and Urban Non-Farmworker Communities. J Immigr Minor Health. 2022 Sep 27. doi: 10.1007/s10903-021-01274-9. (2)
- 148. Arcury TA, Smith SA, Talton JW, Chen H, **Laurienti PJ**, Quandt SA. Depressive Symptoms of Latinx Women in Rural Farmworker and Urban Non-Farmworker Families in North Carolina. Journal of Racial and Ethnic Health Disparities. 2022 Oct 25:1–10. doi: 10.1007/s40615-021-01172-8. **(3)**
- Fish J, DeWitt A, Al Momani AAR, Laurienti PJ, Bollt E. Entropic Regression for Neurologically Motivated Applications. Chaos. 2021 Nov;31(11):113105. doi: 10.1063/5.0039333. (4)
- 150. Lepetit C, Gaber M, Zhou K, Chen H, Holmes J, Summers P, Anderson KA, Scott RP, Pope CN, Hester K, **Laurienti PJ**, Quandt SA, Arcury TA, Vidi PA. Follicular DNA Damage and Pesticide Exposure Among Latinx Children in Rural and Urban Communities. Expo Health (2023). https://doi.org/10.1007/s12403-023-00609-1. **(0)**
- 151. Fortunato JE, **Laurienti PJ**, Wagoner AL, Shaltout HA, Diz DI, Silfer JL, Burdette JH. Children with chronic nausea and orthostatic intolerance have unique brain network organization: A case-control trial. Neurogastroenterol Motil. 2021 Oct 4:e14271. doi: 10.1111/nmo.14271. **(1)**
- 152. Casanova R, Lyday RG, Bahrami M, Burdette JH, Simpson SL., **Laurienti PJ**. Embedding functional brain networks in low dimensional spaces using manifold learning techniques. Frontiers in Neuroinformatics, 2021. Dec 24;15:740143. doi: 10.3389/fninf.2021.740143. (4)
- 153. Thumuluri D, Lyday R, Babcock P, Ip EH, Kraft RA, **Laurienti PJ**, Barnstaple R, Soriano CT, Hugenschmidt CE. Improvisational Movement to Improve Quality of Life in Older Adults With Early-Stage Dementia: A Pilot Study. Front Sports Act Living. 2021 Jan 14;3:796101. doi: 10.3389/fspor.2021.796101. **(7)**
- 154. Tomlinson CE, **Laurienti PJ**, Lyday RG, Simpson SL. A regression framework for brain network distance metrics. Netw Neurosci. 2022 Feb 1;6(1):49-68. doi: 10.1162/netn_a_00214. **(7)**
- 155. Burdette JH, Bahrami M, **Laurienti PJ**, Simpson SL, Nicklas BJ, Fanning J, Rejeski WJ. Longitudinal relationship of baseline functional brain networks with intentional weight loss in older adults. Obesity (Silver Spring). 2022 Apr;30(4):902-910. doi: 10.1002/oby.23396. **(0)**
- 156. Bahrami M, Simpson SL, Burdette JH, Lyday RG, Quandt SA, Chen H, Arcury TA, **Laurienti PJ**. Altered default mode network associated with pesticide exposure in Latinx children from rural farmworker families. Neuroimage. 2022 Aug 1; 256:119179. doi: 10.1016/j.neuroimage.2022.119179. **(5)**

- 157. Dan T, Huang Z, Cai H, Lyday RG, **Laurienti PJ**, Wu G. Uncovering shape signatures of resting-state functional connectivity by geometric deep learning on Riemannian manifold. Hum Brain Mapp. 2022 May 10. doi: 10.1002/hbm.25897. **(3)**
- 158. Bahrami M, **Laurienti PJ**, Shappell HM, Dagenbach D, Simpson SL. A mixed-modeling framework for whole-brain dynamic network analysis. Network Neuroscience 2022; 6 (2): 591–613. doi:10.1162/netn a 00238. **(0)**
- 159. Dobbins DL, Chen H, Cepeda MJ, Berenson LM, Talton JW, Anderson KA, Burdette JH, Quandt SA, Arcury TA, **Laurienti PJ**. Comparing impact of pesticide exposure on cognitive abilities of Latinx children from rural farmworker and urban non-farmworker families in North Carolina. Neurotoxicol Teratol. 2022 Jul-Aug;92:107106. doi: 10.1016/j.ntt.2022.107106. **(3)**
- 160. Dan T, Huang Z, Cai H, **Laurienti PJ**, Wu G. Learning Brain Dynamics of Evolving Manifold Functional MRI Data Using Geometric-Attention Neural Network. IEEE Trans Med Imaging. 2022 Apr 22;PP. doi: 10.1109/TMI.2022.3169640. **(12)**
- Bahrami M, Laurienti PJ, Shappell H, Simpson SL. Brain Network Analysis: A Review on Multivariate Analytical Methods. Brain Connect. 2023 Aug 25. doi: 10.1089/brain.2022.0007.
 (1)
- 162. Rejeski WJ, **Laurienti PJ**, Bahrami M, Fanning, J, Simpson SL, Burdette JH. Aging and neural vulnerabilities in overeating: A conceptual overview and model to guide treatment. Psychiatry Clin. Neurosci. Rep. 2022;1:e39. doi: 10.1002/pcn5.39. **(5)**
- 163. Yang D, Chen J, Yan C, Kim M, **Laurienti PJ**, Styner M, Wu G. Group-Wise Hub Identification by Learning Common Graph Embeddings on Grassmannian Manifold. IEEE Trans Pattern Anal Mach Intell. 2021 Nov;44(11):8249-8260. doi: 10.1109/TPAMI.2021.3081744. **(3)**
- 164. Quandt SA, Smith SA, Talton JW, Chen H, **Laurienti PJ**, Arcury TA. Change and Continuity in Preventive Practices Across the COVID-19 Pandemic Among Rural and Urban Latinx Immigrant Worker Families. Hygiene (Basel). 2022 Dec;2(4):200-211. doi: 10.3390/hygiene2040018. **(0)**
- 165. Peterson H, **Laurienti PJ**, Rejeski WJ, Fanning J, Gauvin L. Childhood neglect is associated with low affect and high stress in habitual alcohol drinkers. International Journal of Alcohol and Drug Research. 2022; 10(1), 3-14. doi: 10.7895/ijadr.399. **(2)**
- 166. Thompson AC, Chen H, Miller ME, Webb CC, Williamson JD, Marsh AP, Hugenschmidt C, Baker LD, Laurienti PJ, Kritchevsky SB. Association between contrast sensitivity and physical function in cognitively healthy older adults: the Brain Network and Mobility Function Study. J Gerontol A Biol Sci Med Sci. 2023 Feb 17:glad060. doi: 10.1093/gerona/glad060.
 (3)
- 167. Peterson-Sockwell H, Rejeski WJ, Fanning J, Porges SW, Heilman KJ, **Laurienti PJ**, Gauvin L. Differential Momentary Reports of Stress and Affect Associated With Alcohol Consumption in Middle-Aged Versus Younger Adults. Subst Use Misuse. 2023 Feb 27:1-10. doi: 10.1080/10826084.2023.2177967. **(1)**

- 168. Thompson AC, Miller ME, Handing EP, Chen H, Hugenschmidt CE, **Laurienti PJ**, Kritchevsky SB. Examining the intersection of cognitive and physical function measures: Results from the brain networks and mobility (B-NET) study. Front Aging Neurosci. 2023 Feb 2;15:1090641. doi: 10.3389/fnagi.2023.1090641. Erratum in: Front Aging Neurosci. 2023 Mar 01;15:1166863. **(1)**
- 169. **Laurienti PJ**, Miller ME, Lyday RG, Boyd MC, Tanase A, Burdette JH, Hugenschmidt CE, Rejeski WJ, Simpson SL, Baker LD, Tomlinson CE, Kritchevsky SB. Associations of physical function and body mass index with functional brain networks in community-dwelling older adults. Neurobiol Aging. 2023 Mar 21: doi.org/10.1016/j.neurobiolaging.2023.03.008. **(2)**
- 170. Quandt SA, Smith SA, Arcury TA, Chen H, Hester K, Pope CN, Anderson KA, **Laurienti PJ**. Comparing Longitudinal Measures of Cholinesterase as Biomarkers for Insecticide Exposure Among Latinx Children in Rural Farmworker and Urban Non-Farmworker Communities in North Carolina. J Occup Environ Med. 2023 Sep 6. doi: 10.1097/JOM.0000000000002965. **(0)**
- 171. Khodaei M, **Laurienti PJ**, Dagenbach D, Simpson SL. Brain working memory network indices as landmarks of intelligence. Neuroimage Rep. 2023 Jun;3(2):100165. doi: 10.1016/j.ynirp.2023.100165. **(1)**
- 172. Tomlinson CE, **Laurienti PJ**, Lyday RG, Simpson SL. 3M_BANTOR: A regression framework for multitask and multisession brain network distance metrics. Netw Neurosci. 2023 Jan 1;7(1):1-21. doi: 10.1162/netn a 00274. **(1)**
- 173. Arcury TA, Chen H, Quandt SA, Talton JW, Anderson KA, Scott RP, Summers P, **Laurienti PJ**. Pesticide Exposure among Latinx Children in Rural Farmworker and Urban Non-Farmworker Communities: Associations with Locality and Season. Int J Environ Res Public Health. 2023 Apr 26;20(9):5647. doi: 10.3390/ijerph20095647. **(4)**
- 174. Peterson-Sockwell H, Veach LJ, Simpson SL, Fanning J, **Laurienti PJ**, Gauvin L. Desire and craving measured using behavioral ratings and brain network topology differ significantly among moderate to heavy alcohol consumers. Alcohol Clin Exp Res (Hoboken). 2023 May;47(5):893-907. doi: 10.1111/acer.15066. **(0)**
- 175. Khodaei M, Dobbins DL, **Laurienti PL**, Simpson SL, Arcury TA, Quandt SA, Anderson KA, Scott RP, Burdette JH. Neuroanatomical differences in Latinx children from rural farmworker families and urban non-farmworker families and related associations with pesticide exposure. Heliyon 2023 Nov11; 9(11). doi: 10.1016/j.heliyon.2023.e21929. **(0)**
- 176. Bollt E, Fish J, Kumar A, Roque Dos Santos E, **Laurienti PJ**. Fractal basins as a mechanism for the nimble brain. Sci Rep. 2023 Nov 27;13(1):20860. doi: 10.1038/s41598-023-45664-5. **(0)**
- 177. Kirse HA, Bahrami M, Lyday RG, Simpson SL, Peterson-Sockwell H, Burdette JH, **Laurienti PJ**. Differences in Brain Network Topology Based on Alcohol Use History in Adolescents. Brain Sci. 2023 Dec 5;13(12):1676. doi: 10.3390/brainsci13121676. **(0)**
- 178. Zukowski LA, Fino PC, Levin I, Hsieh KL, Lockhart SN, Miller ME, **Laurienti PJ**, Kritchevsky SB, Hugenschmidt CE. Age and beta amyloid deposition impact gait speed, stride length, and gait smoothness while transitioning from an even to an uneven walking surface in older adults. Hum Mov Sci. 2024 Feb;93:103175. doi: 10.1016/j.humov.2023.103175. **(0)**

Peer Reviewed Conference Proceedings:

- 1. Mokhtari F, Mayhugh RE, Hugenschmidt CE, Rejeski WJ, **Laurienti PJ**. Tensor-based vs. matrix-based rank reduction in dynamic brain connectivity. Proceedings Volume 10574, Medical Imaging 2018: Image Processing; 105740Z (2018); doi: 10.1117/12.2293014. **(8)**
- 2. Wu G, Munsell B, **Laurienti PJ**, Chung MK. GRAND: Unbiased Connectome Atlas of Brain Network by Groupwise Graph Shrinkage and Network Diffusion. In: Wu G., Rekik I., Schirmer M., Chung A., Munsell B. (eds) Connectomics in NeuroImaging. Lecture Notes in Computer Science, vol 11083. Springer, Cham (2018); doi.org/10.1007/978-3-030-00755-3_14. **(2)**
- 3. Kim M, Zhu X, Peng Z, Liang P, Kaufer D, **Laurienti PJ**, Wu G. Constructing Multi-scale Connectome Atlas by Learning Common Topology of Brain Networks. In book: Medical Image Computing and Computer Assisted Intervention, Proceedings, Part III, pp.727-73522nd International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2019), Shenzhen, China, October, 2019. doi: 10.1007/978-3-030-32248-9. **(1)**
- 4. Lin Y, Laurienti PJ, Wu G. Detecting Changes of Functional Connectivity by Dynamic Graph Embedding Learning. 23rd International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2020), Lima, Peru. (6)
- 5. Chen A, Yang D, Yan C, Peng Z, Kim M, **Laurienti PJ**, Wu G, A Novel Spatial-Temporal Hub Identification Method for Dynamic Functional Networks, IEEE International Symposium on Biomedical Imaging (ISBI) 2020, Iowa City, USA. **(0)**
- 6. Huang Z, Cai H, DanT, Lin Y, **Laurienti PJ**, Wu G. Detecting Brain State Changes by Geometric Deep Learning of Functional Dynamics on Riemannian Manifold. 24th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2021). Virtual **(12)**

Technical Reports/Web Publications/Magazines

- Laurienti PJ, Hugenschmidt CE, Hayasaka S. Modularity maps reveal community structure in the resting human brain. Nature Proceedings hdl.handle.net/10101/npre.2009.3069.1 (2009). (21)
- 2. Hayasaka S, **Laurienti PJ**. Degree distributions in mesoscopic and macroscopic functional brain networks. arXiv:0903.4168v1 (2009). **(3)**
- 3. Simpson SL, Hayasaka S, **Laurienti PJ.** Selecting an exponential random graph model for complex brain networks. <u>arXiv:1007.3230</u> (2010). **(2)**
- 4. Simpson SL, Burdette JH, Laurienti PJ. The brain science interface. onlinelibrary.wiley.com/doi/10.1111/j.1740-9713.2015.00843.x (2015). (5)
- Bahrami M, Laurienti PJ, Shappell HM, Simpson SL. A Mixed-Modeling Framework for Whole-Brain Dynamic Network Analysis. biorxiv.org/content/biorxiv/early/2021/02/26/2021.02.25.432947 (2021). (2)
- 6. Neyland BR, Lockhart SN, Lyday RG, Baker LD, Handing EP, Miller ME, Kritchevsky SB, Laurienti PJ, Hugenschmidt CE. Physical resilience in the brain: The effect of white matter

disease on brain networks in cognitively normal older adults. https://www.biorxiv.org/content/10.1101/2022.05.20.492850v1 (2022) (1)

Commentaries:

 Laurienti PJ. Neural murmurations: Comment on "Understanding brain networks and brain organization" by Luiz Pessoa. Phys Life Rev 2014 Sep;11(3):452-4. doi: 10.1016/j.plrev.2014.05.001. (1)

Abstracts/Scientific Exhibits/Presentations at National Meetings

- Blankenship JE, Laurienti PJ, Gamkrelidze GN. Candidate command neurons for Aplysia swimming are tentatively identified in the cerebral ganglion. Soc Neurosci Abstr 1993; 19:1599.
- 2. **Laurienti PJ**, Blankenship JE. Electrophysiological properties of dissociated parapodial muscle fibers from *Aplysia brasiliana*. Soc Neurosci Abstr 1994; 20:1759.
- 3. Blankenship JE, **Laurienti PJ**. Serotonin facilitates neuromuscular transmission in parapodia of *Aplysia brasiliana* by broadening motor neurons action potentials. Soc Neurosci Abstr 1994; 20:1597.
- 4. **Laurienti PJ**, Gamkrelidze GN, Blankenship JE. Ionic currents in dissociated *Aplysia brasiliana* parapodial muscle fibers. Soc Neurosci Abstr 1995; 21:1458.
- 5. Gamkrelidze GN, **Laurienti PJ**, Blankenship JE. Serotonin enhances calcium current in isolated somata of *Aplysia* parapodial motor neurons. Soc Neurosci Abstr 1995; 21:1458.
- 6. Blankenship JE, Yu B, Gamkrelidze GN, **Laurienti PJ**. Serotonin increases calcium current in swim motoneurons of Aplysia. Am Zool 1999; 39(5)109A-109A Sp. Iss. SI.
- 7. **Laurienti PJ**, Burdette JH, Yen Y-F, Wallace MT, Stein BE. fMRI measures of multisensory processing in human cortex. Soc Neurosci Abstr 2000; 30.
- 8. Stein B E, **Laurienti PJ**, Stanford T R, Wallace MT. Neural mechanisms for integrating information from multiple senses. In: Proceedings of the 2000 IEEE International Conference on Multimedia and Exposition, New York, NY, 2000; pp. 567-570.
- 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. Roberson G, Hairston W, Wallace M, Stein B, **Laurienti PJ**, Schirillo J. Unifying multisensory signals across time and space. Soc Neuroscience Abstract 2001; 27:1342.
- 11. Field AS, **Laurienti PJ**, Yen Y-F, Burdette JH, Moody DM. Common caffeine consumption and withdrawal: implications for quantitative cerebral perfusion and functional MR imaging studies. Exhibited at the 87th Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, Illinois, November 25-30, 2001. Abstract: Radiology 2001; 221(P):482.
- 12. Koyama T, McHaffie JG, **Laurienti PJ**, Coghill RC. A new technique for fMRI studies: single-epoch designs. The Journal of Pain 2002; 3(2, Supp 1):34. Poster No. 734

- 13. Koyama T, McHaffie JG, **Laurienti PJ**, Coghill RC. A new technique for fMRI studies: single-epoch designs. Exhibited at the 8th International Conference on Functional Mapping of the Human Brain, Sendai, Japan, June 2-6, 2002. Abstract: Available on CD-Rom, Neuroimage, Vol. 16, No. 2.
- 14. Whitlow CT, Livengood LB, Hart SL, Lamborn CM. Liguori A, Frasca Ta, **Laurienti PJ**, Porrino LJ. Long-term cannabis users employ different decision-making strategies than controls in a risk-taking task. Abstract: Program No. 900.12.2002 Abstract Viewer/Itinerary Planner (Online only).
- 15. Bradbury M, Burdette JH, **Laurienti PJ**, Flowers DL, Wood FB, Maldjian JA. Neuroanatomic changes in language network processing in dyslexia: a voxel-based morphometric study. American Society of Neuroradiology, Washington, DC, 2003.
- 16. Maldjian JA, Burdette JH, Kraft RA, Flowers DL, Wood FB, **Laurienti PJ**. Identifying the relationship between fMRI and structural brain changes in dyslexia: A Biologic Parametric Mapping study. American Society of Neuroradiology, Washington, DC, 2003.
- 17. **Laurienti PJ**, Brown C, Kraft RA, Maldjian JA, Burdette JH. Cross-modality deactivations are modulated by sensory acuity. Neuroimage 2003; 19(2), Supplement 1, S63.
- 18. Lamborn CM, Whitlow CT, **Laurienti PJ**, Liguori A, Livengood LB, Hart SL, Porrino LJ. Decision-making in heavy marijuana users: an fMRI study. 2003 Abstract: College on Problems of Drug Dependence, Miami Beach, Florida.
- 19. **Laurienti PJ**, Kraft RA, Maldjian JA, Burdette JH, Wallace MT. Behavioral enhancement associated with contextually congruent stimulus pairs is specific to cross-modal stimulation. Program No. 267.10, 2003 Abstract Viewer/Itinerary Planner. Washington, DC, Society for Neuroscience.
- 20. Hairston WD, **Laurienti PJ**, Burdette JH, Brown CL, Redick TS, Mishra G, Wallace MT. Multisensory localization performance under conditions of degraded visual acuity. Program No 267.11, 2003 Abstract Viewer/Itinerary Planner. Washington, DC, Society for Neuroscience.
- 21. Oparowski EG, Dagenbach D, **Laurienti PJ**. Neural correlates of attentional control in the counting stroop task with numerical stimuli. 2003 Abstract presented at the Annual Meeting of the Psychonomic Society, Vancouver, BC, Canada.
- 22. Dubray MB, Jennings JM, **Laurienti PJ**. Neural correlates of memory retrieval during an opposition task as measured by event-related fMRI. 2003 Abstract presented at the Annual Meeting of the Psychonomic Society, Vancouver, BC, Canada.
- 23. Burdette JH, **Laurienti PJ**, Flowers L, Kraft RA, Maldjian JA, Wood FB. Altered auditory-visual interactions in dyslexia: an fMRI study. Abstract: RSNA 2003:462, Chicago, IL
- 24. **Laurienti PJ**. Differential reactions to multisensory stimuli in "primary" and "non-primary" regions of human cortex. 2004 Abstract: IMRF, Barcelona.
- Hugenschmidt CE, Hairston WD, Kraft RA, Maldjian JA, Wallace MT, Laurienti PJ. Cross-modal deactivations in sensory cortex are modulated by attention. NeuroImage 2004; 22 (Suppl 1):S37.

- 26. Hairston WD, Hugenschmidt CE, Wallace MT, Kraft RA, Maldjian JA, **Laurienti PJ**. Attention- Modulated Gating of Cross-Modal Cortical Deactivation. Program No.177.14 2004 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience. Online
- 27. Peiffer AM, Hugenschmidt CE, Maldjian JA, Casanova R, Ryali S, Burdette RA, Kraft RA, Laurienti PJ. Aging and the Interaction of Sensory Cortices. Program No. 617.18. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuro. Online.
- 28. Hugenschmidt CE, Peiffer AM, Bennett EA, **Laurienti PJ**. Modality-Specific Selective Attention: Costs and Benefits in Unisensory and Multisensory Tasks. Program No. 388.4. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuro. Online.
- 29. **Laurienti PJ**, Hugenschmidt CE, Peiffer AM. Revisiting the Race Model for Evaluating Multisensory Integration. Program No. 617.20. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience. Online.
- 30. Burdette JH, **Laurienti PJ**, Maldjian JA, Flowers DL, Kraft RA, Wood FB. Voxel-Based Morphometric Differences Between Typical and Dyslexic Readers. Program No. 643.1. 2005 Abstract Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience. Online.
- 31. Casanova R, Ryali S, Baer A, Pearson K, **Laurienti PJ**, Maldjian JA. The Biologic Parametric Mapping Toolbox. 2005 Abstract, Society for Neuroscience, Washington, DC.
- 32. Ryali S, Casanova R, **Laurienti PJ,** Peiffer AM, Maldjian JA. Statistical Inference for Wavelet-Denoised Statistical Parametric Maps. Proc. Intl. Soc. Mag. Reson. Med. 14, 2006.
- 33. Casanova R, Ryali S, Bare A, **Laurienti PJ**, Peiffer AM, Hayasaka S, Burdette JH, Wood F, Maldjian JA. Biologicial Parametric Mapping. 2006 Abstract, Human Brain Mapping Conference, Florence, Italy, 2006.
- 34. 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. Prog. No. 489T. 2006 Abstract, HBM Conference, Florence, Italy.
- 35. Peiffer AM, Maldjian JA, **Laurienti PJ**. Evaluating Age Related Changes in Brain Function Using a Novel Meta-Analysis of fMRI Data. Program No. 133M. 2006 Abstract, Human Brain Mapping Conference, Florence, Italy.
- 36. Burnett LR, Kraft RA, Maldjian JA, Burdette JH, Chen MY, Yang L, **Laurienti PJ**. Caffeine Induces Bold Signal Decreases in Subjects Without Pre-Scan Withdrawal. 2006 Abstract, Human Brain Mapping Conference, Florence, Italy.
- 37. Casanova R, Ryali S, Baer A, **Laurienti PJ**, Peiffer AM, Hayasaka S, Burdette JH, Maldjian JA. Biological Parametric Mapping. Program No. 2797. 2006 Abstract, ISMRM. Scientific Conference, Seattle, Washington.
- 38. Ryali S, Casanova R, **Laurienti PJ**, Peiffer AM, Maldjian LA. Estimation of False Discovery Rates for Wavelet-Denoised Statistical Parametric Maps. 2006 Abstract, ISMRM Scientific Conference, Seattle, Washington.

- 39. Casanova R, **Laurienti PJ**, Maldjian JA, Peiffer AM, Ryali S. Statistical inference for Wavelet-Denoised Statistical Parametric Maps. Program No. 2858. 2006 Abstract, ISMRM Scientific Conference, Seattle, Washington.
- 40. Casanova R, Hayasaka S, **Laurienti PJ**, Maldjian JA. A Non-Parametric Approach to SPM Analyses with Voxel-Wise Covariates. 2007 Abstract, Human Brain Mapping Conference, Chicago.
- 41. 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 Withdawal and Native States. 2007 Abstract, Human Brain Mapping Conference, Chicago.
- 42. 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. 2007 Abstract, Human Brain Mapping Conference, Chicago.
- 43. Peiffer AM, Burdette JH, **Laurienti PJ**, Flowers L, Maldjian JA, Milner L, Wood F. Evaluating Dyslexia Across Multiple Speech Conditions Using a Novel fMRI Meta-Analysis Technique. 2007 Abstract, Human Brain Mapping Conference, Chicago.
- 44. Mozolic J, Rawley-Payne M, Long A, **Laurienti PJ**. Brain Fitness: A Randomization Controlled Trial of the Effects of Attention Training in Older Adults. 2007 Abstract, Human Brain Mapping Conference, Chicago.
- 45. Hugenschmidt CE, Peiffer AM, Casanova R, Maldjian JA, Burdette JH, **Laurienti PJ**. Preservation of Default Mode Functioning in Healthy Aging Adults. 2007 Abstract, Human Brain Mapping Conference, Chicago.
- 46. Addicott MA, Yang LL, Casanova RL, Peiffer AM, Maldjian JM, Burdette JH, Burnett LR, Laurienti PJ. The effects of chronic caffeine use on the temporal dynamics of the BOLD signal. 2008 Abstract, Human Brain Mapping Conference, Melbourne Australia.
- 47. Mozolic JL, Morgan AR, **Laurienti PJ**. Cognitive training impacts brain function and structure of healthy older adults in a randomized controlled trial. 2008 Abstract No. 1315, The Gerontological Society of America Annual Meeting, Washington, D.C.
- 48. Mozolic JL, Morgan AR, **Laurienti PJ**. Cognitive training impacts functional brain activity and cerebral blood flow of healthy older adults in a randomized controlled trial. 2008 Abstract, Human Brain Mapping Conference, Melbourne Australia.
- 49. Yang LL, Addicott MA, Peiffer AM, Kraft RA, Maldjian JA, Burdette JH, Burnett LR, Chen MY, **Laurienti PJ**. Caffeine is not a universal BOLD contrast booster. 2008 Abstract, Human Brain Mapping Conference, Melbourne Australia.
- 50. Hayasaka S, **Laurienti PJ**. Mesoscopic Structure of the Resting-State Small-World Brain Network. 2009 Abstract, Organization for Human Brain Mapping Conference, San Francisco
- 51. **Laurienti PJ**, Hayasaka S. Network modularity maps reveal sub-components of the default-mode network. 2009 Abstract, Organization for Human Brain Mapping Conference, San Francisco

- 52. Peiffer AM, Rosano C, **Laurienti PJ**. Does the default mode network influence executive functioning? 2009 Abstract, Human Brain Mapping Conference, San Francisco, California.
- 53. Peiffer AM, Hugenschmidt CE, Mozolic JL, **Laurienti PJ**. Do structural MRI analyses show evidence for cognitive reserve in the healthy aging brain? 2009 Abstract, The Gerontological Society of America Annual Meeting, Atlanta, Georgia.
- 54. **Laurienti PJ**, Hugenschmidt CE, Maldjian JA, Wagner B, Hayasaka S. Network Analyses of Multisensory Processing, Int. Multisensory Research Forum, New York City, NY, June 2009.
- 55. **Laurienti PJ**, Hugenschmidt CE, Mozolic JM, Hayasaka S. Physiological Brain Imaging in the Elderly. Graylyn Conference on Women's Cognitive Heath, October 2009.
- 56. **Laurienti PJ**, Mozolic J, Hugenschmidt CE. Increased Cross-Modal Distractibility in Older Adults. Aging and Speech Communications: Third International Research Conference, October 2009.
- 57. Hayasaka S. Hugenschmidt CE, **Laurienti PJ**. A Network of Genetic Diseases and Brain Areas. International Imaging Genetics Conference, Irvine, CA, USA. January 2010
- 58. Simpson SL, Hayasaka S, **Laurienti PJ**. Exponential Random Graph Modeling for Complex Brain Networks. Organization for Human Brain Mapping Conference, Barcelona, Spain. June 2010
- 59. 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
- 60. Telesford Q, Morgan AR, Hayasaka S, Simpson SL, Barret W, Kraft RA, **Laurienti PJ**. Network Reproducibility in the At-Rest fMRI Network. Organization for Human Brain Mapping Conference, Barcelona, Spain. June 2010
- 61. 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
- 62. 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
- 63. 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
- 64. 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

- 65. 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
- 66. Joyce KE, **Laurienti PJ**, Hayasaka S. Complexity in an agent-based brain model. The International School and Conference on Network Science, Budapest, Hungary. June 2011 (Joyce Presentation)
- 67. Telesford DK, Joyce KE, Hayasaka S, Burdette JH, **Laurienti PJ**. The ubiquity of smallworld networks: Is it really a small-world? The International School and Conference on Network Science, Budapest, Hungary. June 2011
- 68. 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
- 69. Joyce KE, **Laurienti**, **PJ**, Hayasaka S. Evolving an agent based model of the brain using genetic algorithms. Organization for Human Brain Mapping, Quebec City, Quebec. June 2011.
- 70. Telesford QK, Joyce KE, Hayasaka S, Burdette JH, **Laurienti PJ**. The ubiquity of smallworld networks. Organization for Human Brain Mapping, Quebec City, Canada. June 2011.
- 71. Steen M, Hayasaka S, Lobanov O, **Laurienti PJ**, Coghill R. Individual Differences in Brain Networks During Pain Processing: A Method for Assessing Modularity. Organization for Human Brain Mapping, Quebec City, Canada. June 2011.
- 72. Telesford QK, Wyatt CL, Kraft RA, **Laurienti PJ**, Daunais JB. The effects of acute and chronic ethanol exposure in non-human primate brain networks. Research Society on Alcoholism. Atlanta, Georgia. June 2011.
- 73. 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.
- 74. 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.
- 75. Telesford QK, Murnane KS, Kraft RA, Howell LL, **Laurienti PJ**, Daunais JB. Network differences between the awake and anesthetized rhesus macaque. Society for Neuroscience. Washington, DC, USA. November 2011.
- 76. Joyce KE, Hayasaka S, **Laurienti PJ**. A Genetic Algorithm for Controlling an Agent Based Model of the Functional Human Brain. Rocky Mountain Bioengineering Symposium. Blacksburg, VA, USA. March 2012. (Joyce Presentation)
- 77. 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.

- 78. Blair CV, **Laurienti PJ**, Burdette JH. Cognitive-related alterations in network topology and brain function. Aging Cognition Conference, Atlanta, GA, USA. April 2012.
- 79. Joyce KE, **Laurienti PJ**, Hayasaka S. The human brain functional network is resilient to targeted attack. The 11th Annual School of Biomedical Engineering and Sciences Symposium, Winston-Salem, NC, USA. May 2012.
- 80. Telesford QK, Steen M, Moussa MN, **Laurienti PJ**, Hayasaka S. Average group analysis fails to capture complexity in brain networks. Organization for Human Brain Mapping. Beijing, China. June 2012.
- 81. Joyce KE, Hayasaka S, Small M, **Laurienti PJ**. Functional brain networks are highly resilient to targeted attack. The International School and Conference on Network Science, Chicago, IL, USA. June 2012.
- 82. Wilkins R, **Laurienti PJ**, Hodges DA, Burdette JH. From Beethoven to Eminem: Music and Network Science. NetSci. Chicago, IL, USA. June 2012.
- 83. Hayasaka S, Steen M, Moussa MN, **Laurienti PJ**. Consistency of network modules in resting-state fMRI connectome data. 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. Telesford QT, Davenport AT, Kraft RA, **Laurienti PJ**, JB Daunais. Dynamic changes in the brain due acute ethanol exposure in non-human primate brain networks. Research Society on Alcoholism, San Francisco, CA, USA. June 2012.
- 86. Moussa MN, Steen MR, **Laurienti PJ**, Hayasaka S. Functional community similarity and an integrative approach to neuromarketing. 11th Annual Charlotte Life Sciences Conference, Charlotte, NC, USA. October 2012.
- 87. 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.
- 88. Paolini B, **Laurienti PJ**, Rejeski WJ. Mindfulness Moderates Brain Networks Following Short-Term Eating Restraint in Older Adults. Neuroscience Research Day, Wake Forest School of Medicine, Winston Salem, NC, USA. December 2012.
- 89. 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.
- 90. 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.
- 91. 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.

- 92. Telesford QK, **Laurienti PJ**. Understanding dynamics of the sand pile model in complex networks. NetSci. Copenhagen, Denmark. June 2013.
- 93. Paolini B, **Laurienti PJ**, Rejeski WJ. Mindfulness Moderates Brain Networks Following Short-Term Eating Restraint in Older Adults. Mind and Life Summer Research Institute, Garrison Institute, NY, USA. June 2013.
- 94. 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.
- 95. Kus N, Rejeski WJ, **Laurienti PJ**. Does beet root juice enhance the benefits of exercise on brain health in aging hypertensives? 7th Annual Undergraduate Research Day Wake Forest University, Winston Salem, NC, USA. October 2013.
- 96. Klebous C, Marsh A, **Laurienti PJ**, Kim-Shapiro D, Rejeski WJ, Robertson TP, Redman H. Daily Beet Root Juice Supplement and Exercise Training in Older Hypertensive Adults. 7th Annual Undergraduate Research Day Wake Forest University, Winston Salem, NC, USA. October 2013.
- 97. 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.
- 98. Rzucidlo JK, Roseman PL, **Laurienti PJ**, & Dagenbach D. Stability of whole brain and regional network topology within and between resting and cognitive states. Presented at Annual Meeting of the Psychonomic Society, Toronto, Canada. November, 2013.
- 99. 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.
- 100. Winkler A, Paolini B, **Laurienti PJ**, Burdette JH. Your Brain on Caffeine. 168th Annual Meeting of the American Psychiatric Association. Toronto, Canada. May 2015.
- 101. 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.
- 102. Mokhtari F, Paolini BM, Burdette JH, Marsh AP, Rejeski WJ, **Laurienti PJ**. Predicting Success of a Weight Loss Intervention Using Brain Gray Matter and White Matter Volumes, Wake Forest University Graduate School Research Day, Winston Salem, NC, USA March 2016.
- 103. Mokhtari F, Burdette JH, Rejeski WJ, **Laurienti PJ**, Predicting Success of a Weight Loss Intervention Using Brain Gray Matter and White Matter Volumes, Virginia Tech-Wake Forest University SBES Symposium, Winston Salem, NC, USA May 2016.
- 104. Mayhugh, RE, 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.

- 105. Mokhtari F, Paolini BM, Burdette JH, Marsh AP, Rejeski WJ, Laurienti PJ. Baseline Grayand White Matter Volume Predict Successful Weight Loss in the Elderly. Obesity Week. New Orleans, LA, USA November 2016.
- 106. Mokhtari F, Burdette JH, Marsh AP, Rejeski WJ, **Laurienti PJ**. Functional Brain Networks Prospectively Predict Intentional Weight Loss is Older Adults. NC Cognition Conference. Greensboro, NC, USA March 2017.
- 107. Bahrami M, Laurienti PJ, Arcury TA, Simpson SL. The Impacts of Pesticide and Nicotine on Functional Brain Networks in Latino Farmworkers. NC Cognition Conference. Greensboro, NC, USA March 2017.
- 108. Mokhtari F, Burdette JH, Marsh AP, Rejeski WJ, Laurienti PJ. Using fMRI Dynamic Networks in a Hypergraph Learning Model for Predicting the Success of Lifestyle Weight Loss Interventions in Obese Older Adults, SBES Symposium, Blacksburg, VA, USA, May 2017.
- 109. Mayhugh, RE, 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.
- 110. Mokhtari F, Burdette JH, Marsh AP, 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.
- 111. Mokhtari F, Zhu Y, Burdette JH, Wu G, Rejeski WJ, **Laurienti PJ**. Graph-Based Semi-Supervised Learning Outperforms Supervised Learning Algorithms in a Small fMRI Dataset, BMES Annual Meeting, Phoenix, AZ, USA October 2017.
- 112. Bahrami M, **Laurienti PJ**, Arcury TA, Simpson SL. Brain Networks In Latino Farmworkers With Chronic Exposures To Pesticides. BMES Annual Meeting, Phoenix, AZ, USA October 2017.
- 113. Peterson H, Mayhugh RE, W. Rejeski WJ, Bahrami M, Simpson SL, Heilman K, Porges SW, Laurienti PJ. Relationship between cardiac vagal tone and functional brain connectivity in moderate to heavy alcohol consumers. NetSci 2019 Burlington, VT, USA May 2019.
- 114. Bahrami M, **Laurienti PJ**, Simpson SL. Analyzing Local Subnetworks: Context is Everything. NetSci 2019 Burlington, VT, USA May 2019.
- 115. Khodaei M, **Laurienti PJ**, Simpson SL. White Matter Decline in Latinx Children from Farmworker Families. Virginia Tech-Wake Forest University SBES Symposium, Winston Salem, NC, USA May 2020.
- 116. Chen A, Yang D, Yan C, Kim M, **Laurienti PJ**, and Wu G. Reinforcement Learning the Heuristics of Hub Identification over Brain Networks. Organization for Human Brain Mapping (OHBM), Montreal, Canada, June 2020.

- 117. Lin Y, Yang D, Peng J, Yan C, Gao Y, Kim M, **Laurienti PJ**, Wu G. A General Learning-based Framework to Characterize Intrinsic Connectivity Strength in Brain Networks. Organization for Human Brain Mapping (OHBM), Montreal, Canada, June 2020.
- 118. Peterson H, Bahrami M, Simpson SL, Rejeski WJ, **Laurienti PJ**. Differential functional brain network topology during periods of normal drinking and abstinence in moderate to heavy alcohol consumers. Research Society on Alcoholism (RSA) (virtual conference), July 2020.
- 119. Peterson H, **Laurienti PJ**. Abstinence driven chances in functional brain network connectivity when viewing alcohol cue imagery. Society for Neuroscience Global Connectome (virtual conference), January 2021.
- 120. Peterson H, Simpson SL, **Laurienti PJ**, Rejeski WJ. Heartbeat counting is not associated with subjective interoceptive awareness or autonomic function in daily drinkers. New England Science Symposium (NESS) (virtual conference), May 2021.
- 121. Khodaei M, **Laurienti PJ**, Dagenbach D, Simpson SL. Assessing Intelligence-Related Transition From Rest to a Working Memory Task in Brain Network Architecture Using a Multi-Task Mixed Modeling Approach. SBES Symposium, Blacksburg, VA, USA, May 2021.
- 122. Peterson H, Laurienti PJ, Rejeski WJ, L Gauvin. Childhood emotional neglect is associated with low affect and high stress. Research Society on Alcoholism (RSA) (virtual conference), May 2021.
- 123. Khodaei M, **Laurienti PJ**, Simpson SL. Individual Brain Fingerprinting Using the Functional and Structural Network. Virginia Tech-Wake Forest University SBES Symposium, Winston Salem, NC, USA May 2022.
- 124. Peterson H, Veach L, Simpson SL, Fanning J, **Laurienti PJ**, Gauvin L. Differences in semantic interpretation of desire and craving in healthy alcohol consumers. Research Society on Alcoholism (RSA) (virtual conference), June 2022.
- 125. Dan T, Cai H, Huang Z, **Laurienti PJ**, Won Hwa Kim W, Wu G. Neuro-RDM: An Explainable Neural Network Landscape of Reaction-Diffusion Model for Cognitive Task Recognition. 25th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), Singapore, China, September 2022.
- 126. 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.
- 127. Khodaei M, **Laurienti PJ**, Dagenbach D, Simpson SL. Brain Working Memory Network Indices as Landmark of Intelligence. North Carolina Cognition Conference, Winston Salem, NC, USA February 2023.

INVITED PRESENTATIONS:

Academic:

Intramural

09/2001 The Ultimate Emulsion: Mixing Event-Related and Epoch-Base fMRI

ANSIR Seminar Series, Wake Forest University Baptist Medical Center, Winston Salem, NC

	Center, Winston Salem, NC
02/2002	Evaluating Age-Related Changes in Sensory Processing With fMRI Grand Rounds, Wake Forest University Baptist Medical Center, Winston Salem, NC
06/2002	Dietary Caffeine Consumption Modulates fMRI Measures ANSIR Seminar Series, Wake Forest University Baptist Medical Center, Winston Salem, NC
10/2002	fMRI and Behavioral Measure of Auditory/Visual Sensory Integration Department of Psychology Colloquia Series, Wake Forest University Baptist Medical Center, Winston Salem, NC
06/2003	Physiology of the BOLD Signal/ Grand Rounds, Wake Forest Baptist Medical Center
06/2003	Physiology of the BOLD Signal ANSIR Seminar Series, Wake Forest University Baptist Medical Center, Winston Salem, NC
11/2003	Starbucks or Red Bull: Effect of Caffeine on fMRI Radiology Grand Rounds, Wake Forest University Baptist Medical Center, Winston Salem, NC
10/2004	Sensory Processing in Older Adults Kulynych Center for Memory and Cognition Research, Winston Salem, NC
03/2005	The Aging Brain Geriatric Grand Rounds, Wake Forest University Baptist Medical Center, Winston Salem, NC
06/2005	The Aging Brain IEEE Lecture Series, SBES, Winston Salem, NC
09/2005	Sensory Processing in the Aging Brain Young Investigator Award Presentation, Wake Forest University Baptist Medical Center, Winston Salem, NC
09/2005	Peering Into the Aging Brain: Advanced Physiological MRI Wake Forest University Vascular Dementia Workshop, Winston Salem, NC
03/2006	This is Your Brain on Caffeine General Clinical Research Center Lecture Series, Winston Salem, NC
04/2006	Exploring the Final Frontier with Big Magnets: MRI of the Human Brain Wake Forest Institute of Regenerative Medicine, Winston Salem,

NC

	Page 48
08/2006	This is Your Brain on Caffeine Wake Forest Sleep Disorder Center Grand Rounds, Wake Forest University Baptist Medical Center, Winston Salem, NC
11/2006	This is Your Brain on Caffeine Neurology Grand Rounds, Wake Forest University Baptist Medical Center, Winston Salem, NC
03/2007	Functional Brain Imaging of Caffeine Withdrawal Psychiatry Grand Rounds, Wake Forest University Baptist Medical Center, Winston Salem, NC
07/2007	Brain Fitness Geriatric Grand Rounds, Wake Forest University Baptist Medical Center, Winston Salem, NC
09/2007	Evaluating Age Related Cognitive Decline and Cognitive Interventions with Physiological Brain Imaging Graylyn Conference on Women's Cognitive Health, Winston Salem, NC
09/2008	Sensory Attention and The Aging Brain 2 nd Annual William Hazzard Symposium, Department of Gerontology, Wake Forest University Baptist Medical Center, Winston Salem, NC
10/2008	Default Mode and the Aging Brain Women's Health Initiative Annual Conference, Winston Salem, NC
02/2009	Applications of Network Theory to Studies of the Human Brain Wake Forest University High Performance Computing Conference, Winston Salem, NC
03/2009	Overcoming Creative Obstacles/Lessons from Small World Networks Worlds in the Making: Creativity National Symposium, Wake Forest University, Winston Salem, NC
04/2009	Network Science in Biomedical Research Computer Science Colloquium, Wake Forest University Baptist Medical Center, Winston Salem, NC
04/2009	Imaging Complex Brain Networks Radiology Grand Rounds, Wake Forest University Baptist Medical Center, Winston Salem, NC
10/2009	Imaging in the Elderly Graylyn Conference on Women's Cognitive Health, Graylyn International Conference Center of Wake Forest University, Winston-Salem, NC
03/2010	Network Science and Its Application to Collaborative Research Translational Science Institute Seminar Series, Wake Forest University Baptist Medical Center, Winston Salem, NC

04/2010	Network Science and Its Application to Collaborative Research Nursing Research Council, Wake Forest University Baptist Medical Center, Winston Salem, NC
06/2010	Team Science Nursing Strategic Planning Meeting, Wake Forest University Baptist Medical Center, Winston Salem, NC
05/2011	Complexity Theory and Biomedical Science Mid-Career Investigator Award Presentation, Wake Forest University Baptist Medical Center, Winston Salem, NC
09/2011	Brain-Body Interactions in Older Adults Neuroscience Seminar Series, Wake Forest Baptist Medical Center, Winston Salem, NC
09/2011	Interactions and Interdependence: Applying New Theories to the Aging Brain Geriatric Grand Rounds, Wake Forest University Baptist Medical Center, Winston Salem, NC
11/2011	Brain Networks and Obesity in Older Adults Radiology Grand Rounds, Wake Forest Baptist Medical Center, Winston Salem, NC
03/2012	Networks and Complex Systems Computer Science Undergraduate Lecture, Wake Forest University, Winston Salem, NC
11/2012	Network Science Applied to Brain Research Computer Science Undergraduate Lecture, Wake Forest University, Winston Salem, NC
12/2012	Interaction and Independence: Applying New Theories to the Aging Brain Sticht Center Conference on Aging, Wake Forest School of Medicine, Winston Salem, NC
02/2013	Complexity and the Brain Health and Exercise Science Undergraduate Student Lecture, Wake Forest University, Winston Salem, NC
04/2013	Career Choices in Science and Medicine Department of Counselling Undergraduate Lecture, Wake Forest University, Winston Salem, NC
11/2013	Eating, Behavior, and Brain Networks Nutrition Grand Rounds, Wake Forest School of Medicine, Winston Salem, NC
12/2013	Intro to Complexity FaithHealthNC, Department of Ministries, Wake Forest School of Medicine, Winston Salem, NC

	Page 50
03/2018	Using Brain Imaging to Predict Weight Loss Success Pepper Center Investigator Meeting, Wake Forest School of Medicine, Winston Salem, NC
05/2018	How Mindfulness Moderates Craving and Brain Networks in Moderate Alcohol Drinkers
	Center For Research on Substance Use and Addiction (CRSUA) Seminar, Wake Forest School of Medicine, Winston Salem, NC
09/2018	Imaging Dynamic Changes in Brain Connectivity 2018 William R. Hazzard Translational Research in Aging Symposium, Arbor Acres Retirement Community, Winston Salem, NC
11/2020	Spreading Complexity Dean's Research Symposia Series, Wake Forest School of Medicine, Winston Salem, NC
05/2023	Integrating Brain and Body Imaging to Improve Patient Care Pepper Spring Investigators Meeting, Brain networks and mobility (BNET), Winston Salem, NC
02/2024	Brain Networks Associated with Obesity and Weight Loss SBES Seminar, Winston Salem, NC
02/2024	2024 William R. Hazzard Translational Research in Aging Symposium, Intergenerational Center for Arts and Wellness, Winston Salem, NC
Extramural	
11/2001	Imaging Multisensory Processing in the Human Brain with fMRI Grand Rounds, Virginia Polytechnic Institute and State University, Blacksburg, VA
08/2002	An Introduction to Functional Magnetic Resonance Imaging Grand Rounds, Virginia Polytechnic Institute and State University, Blacksburg, VA
09/2002	Integration of Visual and Auditory Stimuli in the Human Brain Grand Rounds, Baylor University, Waco, TX
09/2002	Imaging Multisensory Processing in the Human Brain With fMRI Grand Rounds, University of Texas Medical Branch, Galveston TX
06/2004	Differential Reactions to Multisensory Stimuli in "Primary" and "Non- primary" Regions of Human Cortex International Multisensory Research Forum, Barcelona, Spain
10/2005	Multisensory Integration in the Human Brain International Dyslexia Association Annual Conference, Denver, CO

	Page 51
06/2006	This is Your Brain on Caffeine Salisbury VA Hospital Research Week, Salisbury, NC
10/2007	Modality Specific Selective Attention and Multisensory Integration in Older Adults Aging and Speech Communication Conference, Indiana University, IN
03/2008	Multisensory Integration in the Human Brain: Applications to Dyslexia Annual Conference of Dyslexia, New York City, NY
06/2008	Modality Specific Selective Attention and Multisensory Integration Theoretical and Experimental Psychology Conference, University of Waterloo, Waterloo, Ontario, Canada
10/2008	Sensory Attention in the Aging Brain Department of Psychology Grand Rounds, Indiana University, IN
01/2009	Six Degrees of Cognition: Small World Networks in the Human Brain University of Texas Health Science Center, San Antonio, TX
04/2009	Distractions in Older Adults Pepper Center Conference, University of Pittsburgh, Pittsburgh, PA.
06/2009	Network Analyses of Multisensory Processing International Multisensory Research Forum, New York City, NY
10/2009	Increased Cross-Modal Distractibility in Older Adults Aging and Speech Communication: Third International and Interdisciplinary Research, Indiana Memorial Union Hotel, Bloomington, IN
01/2010	Network Analyses Applied to Multisensory Integration 43rd Annual Winter Conference on Brain Research, Breckenridge, CO
11/2010	Complexity Theory Bioinspiration and Biomimetics Course, Wake Forest University, Winston-Salem, NC
05/2011	Networks Translational Science Center at Wake Forest Reynolda Campus Seminar Series, Wake Forest University, Winston-Salem, NC
07/2011	New Methods of Connectivity Analysis The UCLA Advanced Neuroimaging Summer program, UCLA, Los Angeles, CA
09/2011	Complexity in Biology Translational Science Freshman Seminar, Wake Forest University, Winston-Salem, NC

11/2011	Not Hypothesis Testing and Complexity in Biology Sensational Brain Course, UNCSA, Winston-Salem, NC
02/2012	Special Interest Group: Cerebral Networks in Epilepsy: Merging Structure, Function and Clinical Care. Presentation - Evaluating Complex Networks American Clinical Neurophysiology Society Annual Meeting, San Antonio, TX
02/2012	The New Scientific Revolution TEDx Wake Forest U, Winston-Salem, NC
03/2012	Keynote Lecture: Network Science and Complex Systems Rocky Mountain Bioengineering Symposium, Blacksburg, VA
09/2012	Wiring in the Aging Brain Renaissance Weekend, Aspen Institute, Aspen, CO
09/2012	A Synthetic Brain Model for Clinical Application and Artificial Intelligence 11th Annual Technology Briefing, Benton Convention Center, Winston Salem, NC
11/2012	The Sensational Brain UNC School of the Arts, Winston Salem, NC
01/2013	Brains and Other Complex Systems University of Illinois at Urbana-Champaign, Urbana, IL
05/2013	Network Science, Complexity, and the Future of Brain Research Association for Psychological Science Annual Meeting, Washington DC
05/2013	Neurocomplexity The University of North Carolina Charlotte Complexity Institute Seminar Series, Charlotte, NC
07/2013	Brain Networks Camp Snowball, Systems Thinking and Schools, Winston Salem, NC
11/2013	Brain Networks and Mobility Disability Gerontology Society of America Annual Meeting, NIH Sponsored Workshop - Aging, the CNS, and Mobility, New Orleans, LA
02/2014	Complexity and Networks Frameworks Series, Wake Forest Schools of Business, Winston Salem, NC
03/2014	It Takes the Whole Brain Academy of Orton-Gillingham Practitioners and Educators Annual Conference, Winston Salem, NC

	Page 53
04/2014	Network Science, Complexity, and Brain Research Winston Salem Forsyth County Schools, Hanes Middle School STEM Retreat, Winston Salem, NC
06/2014	Keynote Lecture: The Connected Brain Small Boarding School Association Annual Conference, Winston Salem, NC
06/2014	The Connected Brain Utah National Association of Therapeutic Schools and Programs, Utah Regional Conference, Provo, UT
07/2014	Complexity and the Human Brain World Future Society, Orlando, FL
07/2014	Complexity Chawumba, Stakeholder Health Annual Meeting, Winston Salem, NC
10/2014	Health as a Complex Adaptive System United States Government Accountability Office, Washington DC
08/2015	Complexity, Brain Networks, and Dyslexia The Swift School, Roswell, GA
02/2016	The Brain as a Complex Network NC Cognition Conference, Winston Salem, NC
02/2016	Complexity, Networks, and the Human Brain Ashby Dialogues at UNC-G, Greensboro, NC
03/2016	Complexity Theory and Brain Networks Triangle Imaging Symposium, UNC BRIC, Chapel Hill, NC
04/2016	Interdependence and Brain Networks samsi CCNS Conference, Research Triangle Park, NC
02/2017	Occupational Exposure and Brain Health in Latino Farmworkers Oregon State University, Corvallis, Oregon
03/2017	Networks, Interdependence, and the Complex Brain Franklin Foundation Fellows at University of Georgia, Athens, GA
04/2017	Current Farmworker Research: Youth Farmworker Health and Safety; and Effects of Pesticide Exposure on Child Neurocognitive Development NC Farmworker Institute, Chapel Hill, NC
06/2017	Lifestyle Interventions and Brain Health American Diabetes Association's Meeting 2017, San Diego, CA
09/2018	Finding Solutions: The Brain, Music, Complexity Science, & Rehabilitation 2018 ACRM Annual Conference, Progress in Rehabilitation Research, Dallas, TX

05/2021 Transforming Clinical Neuroscience with Brain Networks

Behavioral Health Grand Rounds, Atrium Health/Charlotte AHEC,

Virtual

02/2021 Complex Brain Networks

NIAAA Collaborative T32 Seminar, Virtual

03/2033 Sensorimotor Network in Aging: Associations with Physical Function,

Obesity, and Weight Loss

Radiology Grand Rounds, Wake Forest University Baptist Medical

Center, Winston Salem, NC

01/2024 Neuroscience perspective of the human connectome

Education Program of Intelligence and Connectomics

Chapel Hill, NC

Industrial

04/2004 Sensory Processing in the Aging Brain

Targacept, Inc., Winston Salem, NC

08/2007 Brain Fitness

Posit Science, San Francisco, CA

09/2008 Caffeine and the Brain

Unilever, New York City, NY

01/2014 Cocoa and the Brain

The Hershey Company, Hershey, PA

Workshops and Symposia

03/2009 Godwin GW, Wiggins W, Hayasaka S, Laurienti PJ, Stapleton J.

Overcoming Creative Obstacles in Geographically Fragmented Environments: Lessons from Small World Networks. Wake Forest

University Creativity Symposium, Winston-Salem, NC.

06/2009 Hayasaka S, Laurienti PJ. Overview of Small-World Networks and

Application in Neuroimaging In The Brain as a Small-World Network: From Micro to Macro Scale. Symposium at Human Brain Mapping

Conference, San Francisco, CA.

Community Engagements

02/2004 The Aging Brain

Best Health, Winston Salem, NC

07/2004 The Aging Brain

Best Health, Winston Salem, NC

10/2004 The Aging Brain

Kernersville YMCA, Kernersville, NC

12/2004 The Aging Brain

Best Health, Winston Salem, NC

01/2005 The Aging Brain

Best Health, Winston Salem, NC

	Page 55
05/2005	The Aging Brain Kiwanis Club, Winston Salem, NC
09/2006	Brain Fitness Best Health Senior Center Grand Opening, Winston Salem, NC
04/2007	Preparing for a Visit to Your Doctor Kiwanis Club, Winston Salem, NC
09/2007	Brain Fitness Winston Salem Men's Group, Winston Salem, NC
04/2009	Brain Fitness The Cliffs, Travelers Rest, SC
08/2009	Brain Fitness The Cliffs, Travelers Rest, SC
12/2010	21st Century Science: Studies of the Complex Human Being UNC School of the Arts ARTStem Program
02/2011	Brain Training 101 Half Century Club Founders' Day Program, Wake Forest University, Winston Salem, NC
02/2011	Is Brain Fitness the Fountain of Youth Dean's Forum, Bridger Field House, Wake Forest University, Winston Salem, NC
02/2011	21st Century Science: Studies of the Complex Human Being, Innovation and Creativity Lecturer Series, Winston Salem, NC
04/2012	Staying Sharp: Ask the experts about keeping your brain young Panel discussion hosted by the WFU Graduate School of Arts and Sciences in collaboration with the Dana Alliance for Brain Initiative, Winston Salem, NC
09/2012	A Synthetic Brain Model for Clinical Application and Artificial Intelligence Winston-Salem Tech Briefing, Winston-Salem Chamber of Commerce, Winston Salem, NC
11/2012	Welcome to Brain Rules Inspiring Learning Series, Winston Salem, NC
01/2013	Brain Rules and Other Complex Things Winston Salem Rotary Club, Winston Salem, NC
02/2013	Welcome to Brain Rules Greensboro Montessori School, Greensboro, NC
03/2013	Synthetic Brains, Facebook and the New Revolution SXSW Interactive Programming for 2013, Austin, TX

Planned Gift Advisory Council, Wake Forest Baptist Medical Center, Winston Salem, NC 10/2013 Music and the Brain The Music Academy, Greensboro, NC 12/2013 Aging Brain Translational Science Center's Speakers Bureau, Archdale Senior Center, Archdale, NC 03/2014 Memory: It's About Your Brain and Your Body Dean's Forum, Bridger Field House, Wake Forest University, Winston Salem, NC 05/2014 Memory: It's About Your Brain and Your Body Lexington Medical Center Foundation, Lexington, NC 09/2014 Rethinking the Brain Alumni Weekend Stay Connected Speaker Series Winston Salem, NC 12/2015 Friends of Friends of Your Facebook Friends Winston Salem Rotary Club Winston Salem, NC 05/2019 Googling Dynamic Functional Brain Networks Pint of Science Winston Salem, NC 06/2019 Brain Networks Wake Forest Summer Immersion Program Winston Salem, NC 08/2023 B-NET Study Participant Appreciation Day Sticht Center		Page
The Music Academy, Greensboro, NC 12/2013 Aging Brain Translational Science Center's Speakers Bureau, Archdale Senior Center, Archdale, NC 03/2014 Memory: It's About Your Brain and Your Body Dean's Forum, Bridger Field House, Wake Forest University, Winston Salem, NC 05/2014 Memory: It's About Your Brain and Your Body Lexington Medical Center Foundation, Lexington, NC 09/2014 Rethinking the Brain Alumni Weekend Stay Connected Speaker Series Winston Salem, NC 12/2015 Friends of Friends of Your Facebook Friends Winston Salem Rotary Club Winston Salem, NC 05/2019 Googling Dynamic Functional Brain Networks Pint of Science Winston Salem, NC 06/2019 Brain Networks Wake Forest Summer Immersion Program Winston Salem, NC 08/2023 B-NET Study Participant Appreciation Day Sticht Center	10/2013	
Translational Science Center's Speakers Bureau, Archdale Senior Center, Archdale, NC 03/2014 Memory: It's About Your Brain and Your Body Dean's Forum, Bridger Field House, Wake Forest University, Winston Salem, NC 05/2014 Memory: It's About Your Brain and Your Body Lexington Medical Center Foundation, Lexington, NC 09/2014 Rethinking the Brain Alumni Weekend Stay Connected Speaker Series Winston Salem, NC 12/2015 Friends of Friends of Your Facebook Friends Winston Salem Rotary Club Winston Salem, NC 05/2019 Googling Dynamic Functional Brain Networks Pint of Science Winston Salem, NC 06/2019 Brain Networks Wake Forest Summer Immersion Program Winston Salem, NC 08/2023 B-NET Study Participant Appreciation Day Sticht Center	10/2013	
Dean's Forum, Bridger Field House, Wake Forest University, Winston Salem, NC 05/2014 Memory: It's About Your Brain and Your Body Lexington Medical Center Foundation, Lexington, NC 09/2014 Rethinking the Brain Alumni Weekend Stay Connected Speaker Series Winston Salem, NC 12/2015 Friends of Friends of Your Facebook Friends Winston Salem Rotary Club Winston Salem, NC 05/2019 Googling Dynamic Functional Brain Networks Pint of Science Winston Salem, NC 06/2019 Brain Networks Wake Forest Summer Immersion Program Winston Salem, NC 08/2023 B-NET Study Participant Appreciation Day Sticht Center	12/2013	Translational Science Center's Speakers Bureau, Archdale Senior
Lexington Medical Center Foundation, Lexington, NC 09/2014 Rethinking the Brain Alumni Weekend Stay Connected Speaker Series Winston Salem, NC 12/2015 Friends of Friends of Your Facebook Friends Winston Salem Rotary Club Winston Salem, NC 05/2019 Googling Dynamic Functional Brain Networks Pint of Science Winston Salem, NC 06/2019 Brain Networks Wake Forest Summer Immersion Program Winston Salem, NC 08/2023 B-NET Study Participant Appreciation Day Sticht Center	03/2014	Dean's Forum, Bridger Field House, Wake Forest University, Winston
Alumni Weekend Stay Connected Speaker Series Winston Salem, NC 12/2015 Friends of Friends of Your Facebook Friends Winston Salem Rotary Club Winston Salem, NC 05/2019 Googling Dynamic Functional Brain Networks Pint of Science Winston Salem, NC 06/2019 Brain Networks Wake Forest Summer Immersion Program Winston Salem, NC 08/2023 B-NET Study Participant Appreciation Day Sticht Center	05/2014	
Winston Salem Rotary Club Winston Salem, NC O5/2019 Googling Dynamic Functional Brain Networks Pint of Science Winston Salem, NC O6/2019 Brain Networks Wake Forest Summer Immersion Program Winston Salem, NC O8/2023 B-NET Study Participant Appreciation Day Sticht Center	09/2014	Alumni Weekend Stay Connected Speaker Series
Pint of Science Winston Salem, NC 06/2019 Brain Networks Wake Forest Summer Immersion Program Winston Salem, NC 08/2023 B-NET Study Participant Appreciation Day Sticht Center	12/2015	Winston Salem Rotary Club
Wake Forest Summer Immersion Program Winston Salem, NC 08/2023 B-NET Study Participant Appreciation Day Sticht Center	05/2019	Pint of Science
Sticht Center	06/2019	Wake Forest Summer Immersion Program
vvinsion Salem, NC	08/2023	

DIDACTIC / SYSTEMATIC INSTUCTION

WFU, Graduate School of Arts and Sciences

Course Director, NEUR 785 & 786 Network Science 2007 - present & Neuroimaging Journal Club (1.0 hr each)

Course Director, NEUR 707 & 706, Neuroscience Tutorial 2021 - present (1.0 hr each)

MENTORING

Formal Mentor Training:

2022 Mentoring Academy

Inclusive mentoring workshop School of Biomedical Engineering and Sciences 5/25/2022

Previous and Current Mentees:

Current mentees:

PhD Students

Mohammadreza Khodaei PhD Student 2020-present School of Biomedical Engineering and Sciences Graduate Student at Wake Forest University. Dr. Laurienti serves as his PhD Co-advisor along with Dr. Sean Simpson while he studies the use of multivariate models to examine relationships between brain networks and human intelligence.

Haley Kirse PhD Student 2021-present Physiology/Pharmacology Graduate Student at Wake Forest University. Dr. Laurienti serves as her PhD advisor while she studies the longitudinal effects of transcranial magnetic stimulation (TMS) as a tool to improve alcohol treatment outcomes.

Clayton McIntyre PhD Student 2023-present Neuroscience Graduate Student at Wake Forest University. Dr. Laurienti serves as his PhD advisor while he studies effect of alcohol on the adolescent human brain.

Masters Students

Alexis Tanase Masters Student 2021-present Neuroscience Graduate Student at Wake Forest University. Dr. Laurienti serves as her Master's program advisor while she studies effect of mobility and aging use on the human brain.

Undergraduate Students

Madeline Boyd WFU Student 2022-present Dr. Laurienti serves as Ms. Reddick's primary mentor as she volunteers in the lab while working on her BS degree in Biology. She is currently considering the WFU 4+1 Master's program.

Monica Soni WFU Student 2023-present While completing her undergraduate degree at Wake Forest, Dr. Laurienti served as an advisor while she studied the effects of pesticides on children in the PACE 5 Study.

Junior Faculty

Heather M. Shappell Assistant Professor 2020-present Dr. Shappell is a recent hire in the Department of Biostatistical Sciences in Public Health Sciences at Wake Forest School of Medicine. Dr. Laurienti serves as a mentoring team member.

Mohsen Bahrami, PhD Assistant Professor 2020-2021 Dr. Laurienti serves as a co-mentor for Dr. Bahrami. He is continuing his

graduate/post-graduate research using mixed model analysis to study changes in brain networks in multiple studies both in and outside the LCBN.

Previous mentees:

High School Students

Scott Snelgrove Loomis Chaffee HS Student Summer 2011 Dr. Laurienti served as a co-mentor for Mr. Snelgrove's summer internship with the LCBN. Scott modeled dynamic activity flow on networks.

Manisha Mishra S. Iredell HS Student Summer 2012 Dr. Laurienti served as a co-mentor for Ms. Mishra's summer internship with the LCBN. Manisha used agent based models to simulate neural activity in the brain.

Jacob Einstein NCSSM Student Summer 2014 Dr. Laurienti served as a co-mentor for Mr. Einstein's summer internship with the LCBN. Jacob worked with a human subject alcohol research study and was conducting preliminary investigations using negative networks in MRI imaging.

Undergraduate Students

Thomas Reddick WFU Student 2002-2003 Dr. Laurienti served as a mentor for Mr. Reddick's undergraduate Honor's Thesis Research. Dr. Reddick recently received his PhD from the Georgia Institute of Technology. He is currently an assistant professor at Purdue University.

Kathryn Davis WFU Student 2003

Dr. Laurienti served as a mentor for Ms. Davis's undergraduate Honor's Thesis Research. Dr. Davis received her MD from the University of Florida College of Medicine is practicing Obstetrics and Gynecology.

Jessica Bullins Salem College Student 2011-2012 Dr. Laurienti served as Ms. Bullins' primary mentor while she worked in the lab as a Wake Forest University Translational Science Center Scholar. She subsequently became a volunteer intern beginning in the lab her junior year of college and she returned as a Wake Forest University Intern Summer 2012, assigned to Dr. Jack Rejeski, on Sabbatical in the LCBN. She is currently a post-doctoral fellow at UNC.

Justyna Rzucidlo WFU Student 2011-2013 Dr. Laurienti served as the mentor for Ms. Rzucidlo's research dedicated to learning links between cognition and brain networks. This work was being completed in collaboration with Dr. Dale Dagenbach. She is currently an Internal Medicine resident at New York University.

Arial "Logan" Rost Salem College Student Summer 2012 Dr. Laurienti served as Ms. Rost's primary mentor while she worked in the lab as a Wake Forest University Translational Science Center Scholar. She was studying the effect of obesity on brain networks. She is currently a medical student at Bastyr University.

2012

Robert Musci WFU Student

Dr. Laurienti served as the co-mentor for Mr. Musci's senior honors thesis. His project evaluated relationships between brain connectivity and physical function in older adults. He is currently a PhD student in translational aging at Colorado State University.

Matthew Stanley WFU Student 2012-2014 Dr. Laurienti serves as the mentor for Mr. Stanley's volunteer research study. His project is evaluating cascades in brain using human fMRI data. He is currently a neuroscience PhD student at Duke University.

Cassandra Klebous WFU Student Summer 2013 Dr. Laurienti served as Ms. Klebous' primary mentor while she worked in the lab as a Wake Forest University Translational Science Center Scholar. She subsequently became a laboratory employee as a study coordinator upon graduation. She is currently attending PA school at Nova Southeastern University in Florida.

Nicole Kus WFU Student Summer 2013 Dr. Laurienti served as Ms. Kus' primary mentor while she worked in the lab as a Wake Forest University Translational Science Center Scholar. She was studying the effect of beetroot juice and exercise on brain networks in older adults. She is a medical student at Temple University.

Eric Schmid WFU Student Summer 2013 Dr. Laurienti served as Mr. Schmid's primary mentor while he worked in the lab as a Wake Forest University Translational Science Center Scholar. He was studying the effect of beetroot juice and exercise on brain networks in older adults.

Meredith Petrie WFU Student 2014-2015 Dr. Laurienti served as the co-mentor for Ms. Petrie's senior honors thesis. Her project evaluated relationships between brain connectivity and obesity/weight loss in older adults. This work was completed in collaboration with Dr. Jack Rejeski. After graduation, Meredith continued to work in the lab under the mentorship of Drs. Laurienti and Rejeski. She is completed a master's degree in social work at Washington University, and is currently working as a therapist.

Caroline Hayes WFU Student Summer 2015 Dr. Laurienti served as Ms. Hayes' primary mentor while she volunteered in the lab learning about the effects of moderate alcohol use on the brain. She is currently a graduate student studying speech language pathology at NYU in New York City, NY.

John Passarelli WFU Student 2015-2016 Dr. Laurienti served as a mentor for Mr. Passarelli's undergraduate research project working on genetic algorithms to generate functional brain networks. He is currently a senior machine learning engineer with Foxy AI.

Rebecca Omonde Salem College Student Summer 2017 Dr. Laurienti served as Ms. Omonde's primary mentor while she worked

in the lab as a Wake Forest University Translational Science Center Scholar. She was studying voxel based morphometry (VBM) analysis. She is currently a customer service agent for Delta Airlines.

Emily McCarthy WFU Student Spring 2018 Dr. Laurienti served as a co-mentor to Ms. McCarthy while she collected brain MR images for a weight loss intervention study (EMPOWER). She is currently pursuing her graduate degree in Physical Therapy.

Laura Miron WFU Student 2018-2020
Dr. Laurienti served as a co-mentor to Ms. Miron while she collected brain MR images for a weight loss intervention study (EMPOWER). She is currently in medical school at the University of Arkansas for Medical Sciences.

Jessie Silfer WFU Student 2018-2020 Dr. Laurienti served as Ms. Silfer's primary mentor while she volunteered in the lab learning brain anatomy and assisting with various research projects. She is currently a graduate teaching assistant at Case Western Reserve university where she is working on her MS in Medical Physiology.

Alec Marsh UNC Student 2022-present Dr. Laurienti serves as Mr. Marsh's primary mentor as he volunteers in the lab learning about network science as it applies to the human brain.

Masters Students

Molly DuBray Masters Student 2003-2004 Ms. DuBray completed a master's degree in psychology in Spring 2004. Her thesis project investigated memory processing using functional MRI.

Corey Lamborn Masters Student 2003-2004 Ms. Lamborn completed a master's degree in pharmacology in the summer of 2004. Her thesis project was an extension of the work completed by Dr. Whitlow, investigating decision making in chronic marijuana users.

Valerie Weisser Masters Student 2004-2006 Ms. Weisser completed a master's degree in psychology and was accepted to a clinical neuropsychology PhD program. Her thesis project was an extension of the work currently ongoing in Dr. Laurienti's laboratory that evaluated the effects of cognitive training in older adults.

Dr. Michael Cartwright Masters Student 2010-2012
Department of Neurology

Dr. Cartwright completed a Master's Dagree in Clinical and Deputation

Dr. Cartwright completed a Master's Degree in Clinical and Population Translational Science. Dr. Laurienti served as the Chair of his thesis committee.

Crystal Vechlekar Masters Student 2010-2012 Dr. Laurienti was the primary mentor for Ms. Vechlekar. Her research focused on age-related changes in complex brain networks. Dr. Laurienti served as the Chair of her thesis committee.

Masters Student 2011-2013 WFU Graduate Student in the Department of Psychology. Dr. Laurienti

served as a co-mentor as Paige used network science methodologies to evaluate changes in the brains of US veterans who have experienced traumatic brain injury (TBI).

Ryan Hampton Masters Student 2012-2014 WFU Graduate Student in the Department of Psychology. Dr. Laurienti served as an imaging advisor and committee member. Ryan used network science methodologies to analyze the Human Connectome Data Set.

Taylor Bolt Masters Student 2014-2015 WFU Graduate Student in the Department of Psychology. Dr. Laurienti served an imaging advisor and committee member. Taylor studied repeated measures of the Iowa Gambling Task (IGT), N-back, and resting fMRI.

Jared Hess Masters Student 2014-2016 Dr. Laurienti served as an imaging advisor and committee member for Mr. Hess' master thesis study. His thesis project investigates the changes in brain networks in patients with Parkinson's Disease using fMRI data.

Medical Students

Paige Roseman

Hesham Hussain Medical Student 2002-2007

Dr. Laurienti was an advisor for Mr. Hussain.

Harsha Settv Medical Student 2003-2007

Dr. Laurienti was an advisor for Ms. Setty.

Carter Brown MD/PhD Student 2002-2005

Dr. Laurienti was the mentor for Dr. Brown's research endeavors throughout medical school. Carter worked on several fMRI and behavioral studies. He is currently a practicing diagnostic radiologist at Tidelands Georgetown Memorial Hospital in South Carolina.

David Joyner Medical Student Summer 2005 Dr. Laurienti was the mentor for Mr. Joyner during his summer research project. His work was an extension of the ongoing behavioral and imaging research on multisensory integration and aging.

William Barrett Medical Student Summer 2009 Dr. Laurienti was the mentor for Mr. Barrett during his summer research project. His project was the evaluation of network metrics on various components of an aging invention study.

Kevin Hiatt Medical Student Summer 2011 Dr. Laurienti was the mentor for Mr. Hiatt during his summer research project. His work used novel network methods evaluation of an existing data set of MRI brain images from a dyslexia cohort.

John Tobben Medical Student Summer 2011 Dr. Laurienti was a mentor for Mr. Tobben during his summer research

project. His work examined the cognitive effects of obesity in both younger and older adults.

Sean Miller Medical Student Summer 2011
Dr. Laurienti was a mentor for Mr. Miller during his summer research project. His work examined the physical effects of obesity in both younger and older adults.

Daniel Hampton Medical Student Summer 2012 Dr. Laurienti was a mentor for Mr. Hampton during his summer research project. His work examines the effects of assaulting functional brain networks.

Michelle Grata Medical Student Summer 2012

Dr. Laurienti was a mentor for Ms. Grata during her summer research project. Her work examines the effects of moderate alcohol use and aging on functional brain networks.

Aaron Winkler Medical Student Summer 2013 Dr. Laurienti was a mentor for Mr. Winkler during his summer research project. His work examines the effects of caffeine on functional brain networks.

PhD Students

Christina Hugenschmidt PhD Student 2003 - 2008 Dr. Laurienti was the primary mentor for Ms. Hugenschmidt. She worked on a project that assesses the role of selective attention in sensory integration changes in the elderly. Christina is currently an associate professor in Geriatric Medicine at Wake Forest School of Medicine.

Jennifer Mozolic PhD Student 2005 - 2009 Dr. Laurienti was the primary mentor for Ms. Mozolic. She was awarded an NRSA from NIA to work on a project to determine if attention training can improve sensory processing in the elderly. Jennifer completed her PhD training in June of 2009, and is currently a faculty member at Warren Wilson College.

Merideth Addicott PhD student 2006 - 2009 Dr. Laurienti was the primary mentor for Ms. Addicott. She was awarded an NRSA from NIDA to fund her graduate research investigating caffeine withdrawal and cognition. She completed her PhD training in August 2009 and is an Associate Professor in the Department of Physiology and Pharmacology at Wake Forest School of Medicine.

Karen Joyce PhD Student 2009-2012 Dr. Laurienti served as a PhD advisor and co-mentor for Ms. Joyce. She had a patent pending, along with Dr. Laurienti and Satoru Hayasaka., for "Agent-Based Brain Model and Related Methods" developed during her dissertation work. She is currently Director of Insights and Analytics with Novant Health.

Qawi Telesford PhD Student 2009-2013
Dr. Laurienti served as a PhD advisor and co-mentor for Mr. Telesford.

His PhD was awarded in Biomedical Engineering. Dr. Laurienti served as a PhD advisor and also assisted with Qawi's Ruth L. Kirschstein National Research Service Award (NRSA) submission and award. He currently is a research scientist at The Nathan Kline Institute for Psychiatric Research.

Malaak Moussa PhD Student 2010-2015 Dr. Laurienti was the primary mentor for Ms. Moussa. Her PhD work was performed in collaboration with Dr. Linda Porrino. The studies evaluated changes in brain networks following chronic alcohol use. She is currently associate director of medical affairs with Otsuka Pharmaceutical Company.

Robin Wilkins PhD Student 2010-2015 UNC Greensboro Graduate Student in the Department of Music. Dr. Laurienti served as a co-advisor. Ms. Wilkins was studying music preference and emotion and the association with brain network topology.

Rhiannon Mayhugh PhD Student 2013-2018 Dr. Laurienti served as a PhD advisor while she studied the changes in brain networks associated with moderate alcohol use in human aging. She is currently the Assistant Director of Experiential Learning at the Johns Hopkins School of Medicine.

Fatemeh Mokhtari PhD Student 2015-2018 School of Biomedical Engineering and Sciences Graduate Student at Wake Forest University. Dr. Laurienti served as her PhD advisor while she studied the changes in brain networks during a weight-loss intervention using machine learning methods. She is currently a software engineer at Apple.

Mohsen Bahrami PhD Student 2015-2019 School of Biomedical Engineering and Sciences Graduate Student at Wake Forest University. Dr. Laurienti serves as his PhD advisor as he uses mixed model analysis to study changes in brain networks. He is currently an associate professor in the Department of Radiology at Wake Forest School of Medicine in the Laboratory for Complex Brain Networks.

Hope Peterson-Sockwell PhD Student 2018-2023 Neuroscience Graduate Student at Wake Forest University. Dr. Laurienti served as her PhD advisor while she studied the effect of moderate alcohol use on the human brain. She is currently a post-doctoral fellow with R00 funding at UNC-Chapel Hill.

MD/PhD Students

Christopher Whitlow MD/PhD Student 2002-2003 Dr. Laurienti served as the fMRI advisor/co-mentor and dissertation committee chairman for Dr. Whitlow in collaboration with Dr. Linda Porrino. Dr. Whitlow's dissertation focused on the effects of chronic marijuana use on brain function. Dr. Whitlow is currently a faculty member with the Division of Radiologic Sciences at Wake Forest School of Medicine, and Section Head of Neuroradiology.

Brielle Paolini MD/PhD Student 2011-2015 Dr. Laurienti was the co-mentor along with Dr. Jack Rejeski for Ms. Paolini's dissertation. She completed her dissertation on studies of eating behavior, brain and body health in older adults, and returned to complete medical school Spring 2015. She is currently a resident in Radiology at Medical University of SC in Charleston.

Medical Residents

John Kaufman, MD Radiology Resident 2006 - 2007 Dr. Laurienti was the co-mentor for Dr. Kaufman in collaboration with Dr. Maldjian. Dr. Kaufman used quantitative perfusion and diffusion tensor MR imaging techniques to study cerebrovascular disease in diabetics. After completing a fellowship at the University of California, San Francisco Dr. Kaufman joined the Kaiser Permanente Medical Group in Hayward, CA.

Andrew Deibler, MD Radiology Resident 2006 - 2007 Dr. Laurienti was a co-mentor for Dr. Deibler. He worked on a project to assess blood flow and functional activity in older adults. Dr. Deibler is currently a radiologist with Forsyth Medical Imaging Center in Winston Salem. NC.

Post-Doctoral Fellows

Ann Peiffer, PhD Post Doctoral Fellow 2004 - 2010 Dr. Laurienti was the primary mentor for Dr. Peiffer. She had prior training in animal behavior and joined Dr. Laurienti's laboratory to gain experience with human functional imaging. She was funded for three years through an NRSA from NINDS. Ann is currently an associate professor at Mars Hill University in North Carolina.

Luke Burnett, PhD Post Doctoral Fellow 2005 - 2006 Dr. Laurienti served as Dr. Burnett's mentor during his post-doctoral fellowship. Dr. Burnett has a PhD in neurobiology and came to Dr. Laurienti's laboratory to learn human imaging methods. He served as a fellow in the laboratory for 1 year before he was sent to serve in Iraq. Dr. Burnett is currently Chief Executive Officer at Keratin Biosciences, LLC.

Lucie Yang, MD, PhD Post Doctoral Fellow 2007 - 2009 Dr. Laurienti served as Dr. Yang's mentor during her post-doctoral fellowship. She came from clinical Neuroradiology to a full time research position. Dr. Yang investigated the effects of caffeine on multiple aspects of human brain imaging.

Dorothy Dobbins, PhD Post-Doctoral Fellow 2020-2021 Dr. Laurienti was the primary mentor for Dr. Dobbins. She had prior training in network science and optogenetics and joined Dr. Laurienti's laboratory to assist with the PACE 5 Study, dealing with the effects of pesticides on Hispanic children of farmworkers and non-farmworkers.

Research Associate

Mohsen Bahrami, PhD Research Associate 2020-2021 Dr. Laurienti serves as a co-mentor for Dr. Bahrami. He was continuing his undergraduate research using mixed model analysis to study changes in brain networks in multiple studies both in and outside the LCBN.

Junior Faculty

Satoru Hayasaka Assistant Professor 2005-2011

Department of Biostatistical Sciences

Former Wake Forest School of Medicine TSI Scholar.

Dr. Laurienti served as his primary mentor.

Colleen Hanlon Instructor 2008-2010

Department of Physiology and Pharmacology

She received the K01 Mentored Research Scientist Development Award from NIDA. Her research involved using functional magnetic resonance imaging to examine neural networks affected in chronic cocaine users. Dr. Laurienti served as a member of her mentoring team.

Michael Cartwright Assistant Professor 2008-2013

Department of Neurology NIH K23 Award Recipient

Presented the President's Research Initiative Award by the American Association of Neuromuscular and Electrodiagnostic Medicine (AANEM) in 2009. Dr. Laurienti served as a member of his mentoring team.

Sean Simpson Professor 2009-2018

Department of Biostatistical Sciences

Current Wake Forest School of Medicine TSI Scholar

Dr. Laurienti served as his primary mentor and his mentor on a K-Award through the NIBIB.

HOSTED AND VISITING FACULTY

Walter S. Pritchard Visiting Scientist 2009-2010 Instructor of Psychology Adjunct Faculty 2012-2018 Surry Community College, Dobson, NC

Dr. Pritchard authored many of the seminal papers in Chaos Theory, Non-linear Dynamics, and Fractal scaling in the human brain in the 1980s and 1990s. His initial mentoring and continued collaboration is a vital component of the LCBN. In 2012 Dr. Pritchard became Adjunct Faculty of the Department of Radiology at Wake Forest School of Medicine.

Kourtland R. Koch Visiting Scientist 2009-2010 Associate Professor of Special Education

Ball State University, Muncie, IN

Dr. Koch traveled several times to Wake Forest School of Medicine to collaborate with Dr. Laurienti and learn about functional brain Imaging. Publications of this collaboration are pending.

Janine Jennings Sabbatical Spring 2009

Associate Professor of Psychology

Wake Forest University, Winston Salem, NC

Dr. Jennings spent her Sabbatical in the Spring of 2009 working with the faculty of the LCBN. Collaborations and publications are ongoing.

Dale Dagenbach Sabbatical Fall 2011
Professor & Chair Psychology Visiting Scientist 2012-present

Wake Forest University, Winston Salem, NC

Dr. Dagenbach spent the Fall semester of 2011 on Sabbatical in the LCBN looking at the differences in brain networks between resting and task induced states. He continues to spend 2-3 days a week working with faculty, staff, and students in the lab. Drs. Dagenbach and Laurienti serve as mentors for many WFU undergraduate and graduate students. Collaborations and publications are ongoing.

W. Jack Rejeski Sabbatical 2012-2013 Thurman D. Kitchin Professor

Director of the Behavioral Physiology Laboratory, Wake Forest University, Winston Salem, NC

Dr. Rejeski is spending his extended Sabbatical in the LCBN study the effects of Mindfulness and Food Craving on networks in the brain. Collaborations and publications are ongoing.

COMMUNITY ACTIVITES AND SERVICES

Patronage:

Bookmarks, Winston Salem, NC

Hospice & Palliative Care Center, Winston Salem, NC

St. Paul's Episcopal Church, Winston Salem, NC

Summit School, Winston Salem, NC