

GEORGETOWN UNIVERSITY SCHOOL OF MEDICINE

CURRICULUM VITAE

John VanMeter, Ph.D.

PERSONAL INFORMATION:

Home Address: 1778 Lanier Place NW, Apt 12A
Washington, DC 20009
202-255-2422

Office Address: Center for Function and Molecular Imaging
Georgetown University Medical Center
Preclinical Science Bldg, Suite LM-14
3900 Reservoir Road NW
Washington, DC 20057-1488
202-287-8767 (O)
202-687-7906 (F)

LICENSURE: None

CERTIFICATION: None

EDUCATION:

Undergraduate: University of Oklahoma
660 Parrington Oval, Norman, OK 73019
June 1984 – December 1987
Bachelor of Science, Computer Science

Graduate Education: Dartmouth College
Department of Math and Computer Science
Hanover, NH 03755
August 1988 – May 1991
Master of Science, Computer Science

Dartmouth College
Department of Math and Computer Science
Hanover, NH 03755
June 1991 – September 1993
Doctor of Philosophy, Computer Science

PROFESSIONAL EXPERIENCE:

Date(s) of Service: 2009 – Present
Title: Associate Professor
Institution: Georgetown University Medical Center
Address: 3900 Reservoir Road NW
Washington, DC 20057

Date(s) of Service: 2005 – 2009
Title: Assistant Professor
Institution: Georgetown University Medical Center
Address: 3900 Reservoir Road NW

Washington, DC 20057

Date(s) of Service: 2001 - 2005
Title: Visiting Professor
Institution: Georgetown University Medical Center
Address: 3900 Reservoir Road NW
Washington, DC 20057

Date(s) of Service: 1995 - 2000
Title: Director of Research and Development
Institution: Sensor Systems, Inc
Address: 103A Carpenter Dr,
Sterling, VA 20164

Date(s) of Service: 1993 - 1995
Title: Staff Fellow
Institution: National Institutes on Aging
Address: 4000 Rockville Pike,
Bethesda, MD 20892

**HONORS and
AWARDS:**

Date:
Award:
Institution/Organization:

Date:
Award:
Institution/Organization:

**PROFESSIONAL
SOCIETIES:**

Date:
Award:
Institution:

PUBLIC SERVICE:

Role/Status: Reviewer
Name of Board/Study Section/Community Organization:
*Department of Defense (DoD) Alcohol and Drug Abuse
Neurobiology and Therapy Panel*
Date(s) of Service: Jul 15-17, 2009

Role/Status: Reviewer
Name of Board/Study Section/Community Organization:
Somatosensory and Chemosensory Sciences Study Section
Date(s) of Service: Jun 2-3, 2009

Role/Status: Reviewer
Name of Board/Study Section/Community Organization:
*Department of Defense (DoD) Traumatic Brain Injury (TBI)
Research Centers*
Date(s) of Service: Jan 2008

Role/Status: Ad-Hoc Reviewer

Name of Board/Study Section/Community Organization: *Biological Psychiatry*

Date(s) of Service: 2006- Present

Role/Status: Ad-Hoc Reviewer

Name of Board/Study Section/Community Organization:

NeuroImage

Date(s) of Service: 2009- Present

Role/Status: Ad-Hoc Reviewer

Name of Board/Study Section/Community Organization: *Journal of Neuroscience Methods*

Date(s) of Service: 2002

INVITED LECTURES:

Neuroimaging of Autism: Connectivity and Cognition

Nancy Lurie Marks Family Foundation

Boston Club Meeting: "NIRS as a Tool for Early Clinical Diagnosis of Autism"

60 William Street, Suite 110, Wellesley, MA 02481

September 10, 2009

Using fMRI and MR Spectroscopy to Measure Cortical Changes in a Ethanol in Real-Time

International Research Training Group

Munich, Germany, July 18, 2009

Using MR Spectroscopy to Measure Cortical Changes in a Pharmacological Agent in Real-Time

Organization for Human Brain Mapping

San Francisco Marriott

San Francisco, CA

June 22, 2009

Using fMRI and NIRS to Study Neuronal Processing

Metropolitan Biophotonics Symposium

Catholic University of America, Pangborn Hall

620 Michigan Ave, NE, Washington, DC 20064

April 6, 2009

MRI Physics, BOLD fMRI, & Properties of BOLD

IGERT Brain and Cognition Workshop

George Washington University

2110 G Street, NW, Washington, DC 20052

February 3, 2009

Neuronal Function and Connectivity Changes in Autism

Children's National Medical Center Autism Research Retreat

12211 Plum Orchard Dr Silver Spring, MD 20904

January 6, 2009

*An Investigation of Perceptual Skills and Cognitive Strategies
Using Functional Brain Imaging*
2008 NGA Academic Research Program (NARP) Symposium
National Academy of Sciences, Keck Center
Washington, DC 20001, Sept 13, 2008

Using Advanced MRI Techniques to Study Autism
Kennedy Krieger Autism Research Network
Kennedy Krieger Institute
Baltimore, MD, February 11, 2008

*An Investigation of Perceptual Skills and Cognitive Strategies
Using Functional Brain Imaging*
2007 NGA Academic Research Program (NARP) Symposium
National Academy of Sciences, Keck Center
Washington, DC 20001, Sept 13, 2007

*White Matter Connectivity and Neurotransmitter Differences in
Autism*
International Brain Mapping Intraoperative Surgical Planning
Society
Washington Plaza Hotel
Washington, DC, September 8, 2007

White Matter Connectivity in Autism
International Research Training Group
Munich, Germany, May 13, 2007

White Matter Connectivity in Autism
Neurology Grand Rounds
Georgetown University Hospital
Washington, DC, April 12, 2007

Results from the Georgetown Autism STAART Project
Meeting of Mid-Atlantic Consortium (MAC)
Kennedy Krieger Institute/Johns Hopkins University
Baltimore, Maryland, Mar 30, 2007

Using fMRI, DTI, and VBM in Neuroscience
University of Nevada, Reno
Reno, Nevada, Dec 11, 2006

*Single Trial Classification of Satellite Target Detection Using EEG
& NIRS*
Neurotechnology for Intelligence Analysts
The Hilton Alexandria Mark Center
Alexandria, VA, Dec 6, 2006

An Investigation of Perceptual Skills and Cognitive Strategies

Using Functional Brain Imaging
2006 NGA Academic Research Program (NARP) Symposium
National Academy of Sciences, Keck Center
Washington, DC 20001, Sept 13, 2006

Introduction to Magnetic Resonance Imaging: Physics and Safety
FDA Staff College
Gaithersburg, Maryland, Oct 11, 2005

DTI Imaging in Autism
Data Analysis and Quality Control in Multi-center Imaging Studies
University of Washington Autism Meeting
Seattle, WA, Aug 8-9, 2005

Convergent Evidence for White Matter Differences in children with Autism Studied using Diffusion Tensor Imaging (DTI) and Voxel-Based Morphometry (VBM)
International Meeting for Autism Research (IMFAR)
Boston, Massachusetts, May 6, 2005

Localization of Motor Activity using PET and MRI
International Meeting on Clinical Pharmacology of Recovery after Stroke
University of Padova,
Venice, Italy, Sept 30, 1994

A Material Mixture Model of Magnetic Resonance Images
Statistical Methods for Modeling
Harvard University, Apr 15, 1993

**UNIVERSITY
SERVICE:**

Department

Role/Function:
Committee Name:
Date(s) of Service:

School

Role/Function: Member
Committee Name: IPN (Interdisciplinary Program in Neuroscience)
Admissions Committee
Date(s) of Service: 2007 – Present

Role/Function: Core Director
Committee Name: General Clinical Research Center
Date(s) of Service: 2006 - Present

Role/Function: Interim Director
Committee Name: Center for Function and Molecular Imaging
Date(s) of Service: 2006 – Present

Role/Function: Member

Committee Name: CTSA Core Technologies Working Group
Date(s) of Service: 2006 – 2007

Role/Function: Student Member
Committee Name: Computer Science Admissions Committee,
Dartmouth College
Date(s) of Service: 1993

University

Role/Function:
Committee Name:
Date(s) of Service:

**TEACHING
ACTIVITIES:**

Medical Courses

Name and Course Number: PBIO-520, Mind-Body Skills
Role: Instructor
Number of Direct* Contact Hours: 24
Year Taught: 2008, 2009
Number of Students: 24
Overall Evaluation Score:

* Direct Contact Hours do NOT include preparation

Clerkships

Name of Clerkship: N/A
Role:
Number of Direct Contact Hours*:
Year Taught:
Number of Students/Fellows:
Overall Evaluation Score:

Course/Clerkship Directorships

Name of Course/Clerkship: NSCI-521, Elements of Imaging
Number of Hours: 48
Year Taught: 3
Number of Students/Fellows: 17
Overall Evaluation Score: 4.4

Average number of Fellows you train per year = 9
Average number of Fellows you train per year = 2
Average number of Residents you train per year = 0
Average number of Medical students you train per year = 0

Teaching Recognition/Awards – N/A

**COLLABORATIVE
ACTIVITIES:**

Mentoring

Name of Mentee: Kelly McVeary, Post-doctoral Fellow
Dates of Mentorship: 2008 - Present
Outcomes: Submitted 1 paper

Name of Mentee: Stuart Washington, Post-doctoral Fellow
Dates of Mentorship: 2008 - Present
Outcomes: Submitted 1 paper

Name of Mentee: Leah Lozier, Graduate Student
Dates of Mentorship: 2007 - Present
Outcomes:

Name of Mentee: Stephanie Maxfield, Graduate Student
Dates of Mentorship: 2007 - Present
Outcomes: Near-fundable score on NRSA application

Name of Mentee: Sheeva Azma, Graduate Student
Dates of Mentorship: 2009 - Present
Outcomes:

Co-Mentoring

Name of Mentee: John Agnew, Ph.D.
Dates of Mentorship: 2000 - 2003
Outcomes: Postdoctoral Fellow, Dept of Psychology, University of Colorado

Name of Mentee: Madison Berl, Ph.D.
Dates of Mentorship: 2004 - Present
Outcomes: Near fundable score on a K-award, being resubmitted

Name of Mentee: Madison Berl, Ph.D.
Dates of Mentorship: 2004 - Present
Outcomes: Near fundable score on a K-award, being resubmitted

Name of Mentee: Sergey Borisov, Ph.D.
Dates of Mentorship: 2006 - 2008
Outcomes: 1 peer-reviewed journal paper, position at University of Frankfurt (Germany)

Name of Mentee: Chevillet
Dates of Mentorship: 2008 - Present
Outcomes: Resubmitting NRSA application

Name of Mentee: Iain DeWitt
Dates of Mentorship: 2008 - Present
Outcomes: Submitting NRSA application

Name of Mentee: Nicole Dietz, M.D., Ph.D.
Dates of Mentorship: 2000 - 2004
Outcomes: 2 peer-reviewed journal papers

Name of Mentee: Elizabeth Lacey
Dates of Mentorship: 2006 - Present
Outcomes: Successful NRSA application

Name of Mentee: Layne Kalbfleisch
Dates of Mentorship: 2003 - 2006
Outcomes: 1 peer-reviewed paper

Name of Mentee: Jacquie Kurland, Ph.D.
Dates of Mentorship: 2006 - 2007
Outcomes: 1 peer-reviewed journal paper, faculty position at the University of Massachusetts

Name of Mentee: Michael Oritz
Dates of Mentorship: 2008 - Present
Outcomes: Submitting NRSA application

Name of Mentee: David Thomas Jones, M.D.
Dates of Mentorship: 2007 - Present
Outcomes: Successful GCRC CReFF grant, 2 abstracts

Name of Mentee: Peter Turkeltaub, M.D.
Dates of Mentorship: 2001 - 2003
Outcomes: 4 peer-reviewed journal papers

Name of Mentee: Benjamin Yerys, Ph.D.
Dates of Mentorship: 2006 - Present
Outcomes: 1 peer-reviewed journal paper, Near fundable score on a K-award, being resubmitted

Joint Grants

Role: Site PI
Title: Rare Diseases CRC – Urea Cycle Disorder
Agency: NIH/NCRR
Identifying Number: RR-03-008
Dates of Project: 09/28/03-07/31/09
Percent Effort: 5%
Total Dollar Amount: \$455,981

Role: Core Director
Title: Learning Beyond Criterion in Aphasia Rehabilitation
Agency: NIH/NIDCD
Identifying Number: 1R01DC007169-01A2
Dates of Project: 09/01/06-08/31/09
Percent Effort: 5%
Total Dollar Amount: \$339,294

Role: Co-Investigator
Title: Model-based fMRI of Human Object Recognition
Agency: NSF
Identifying Number: NSF 0449743
Dates of Project: 07/1/05–06/30/10
Percent Effort: 10%

Total Dollar Amount: \$583,460

Role: Co-Investigator

Title: Integrating brain imaging and genetic analysis of ADHD

Agency: NIH/NIMH

Identifying Number: 1R01MH065395-01A2

Dates of Project: 07/01/03-06/30/08

Percent Effort: 10%

Total Dollar Amount: \$303,729

Role: Core Director

Title: Center for Reading, Learning and Brain Function

Agency: NIH/NICHHD

Identifying Number: 1 P50 HD40095-01

Dates of Project: 04/01/01-11/30/05

Percent Effort: 20%

Total Dollar Amount: \$1,106,790

Joint Publications

All publications are with co-authors. See list below.

SCHOLARSHIP AND RESEARCH:

RESEARCH GRANTS

Current Active

Agency: National Geospatial Intelligence Agency

Identifying Number: HM1582-04-1-2024

Title of Project: Investigation of the Perceptual Skills and Cognitive Strategies Using Functional Brain Imaging

Dates of Project Period: 08/31/04-03/31/09

Role on Project: PI

Percent Effort: 5%

Total Dollar Amount: \$455,981

Agency: NIH/NCRR

Identifying Number: 1P20RR023501-01

Title of Project: Georgetown General Clinical Research Center

Dates of Project Period: 09/17/07-09/16/12

Role on Project: Core Director

Percent Effort: 10%

Total Dollar Amount: \$1,216,030 (est)

Agency: NIH/NIMH

Identifying Number: IU54MH066417-01-A1

Title of Project: fMRI Studies of Sensorimotor Integration in Children with Autism Spectrum Disorder

Dates of Project Period: 05/13/03-04/30/09

Role on Project: Project PI

Percent Effort: 15%

Total Dollar Amount: \$1,177,485

Agency: NIH/NICHHD
Identifying Number: 2P30HD040677-06
Title of Project: IDDRC at Children's National Medical Center
Dates of Project Period: 09/17/01-06/30/11
Role on Project: Project PI
Percent Effort: 18%
Total Dollar Amount: \$227,178 (Neuroimaging core only)

Role: Site PI
Title: Functional MRI of Biphasic Alcohol Effects
Agency: NIH/NIAAA
Identifying Number: 5R21AA015704-02
Dates of Project: 09/30/05-08/31/09
Percent Effort: 10%
Total Dollar Amount: \$229,972

Current Pending

Agency: NIH/NCRR
Identifying Number: 1 S10 RR025696-01
Title of Project: 32-channel head coil and RF system for improved MRI/MRS/fMRI
Dates of Project Period: 04/01/09-03/31/10
Role on Project: PI
Percent Effort: 0% (equipment only grant)
Total Dollar Amount: \$500,000
Score: 243

Previous

Agency: NIH/NCRR
Identifying Number: 1S10RR022647-01
Title of Project: 3T MRI Scanner Gradient and RF Upgrade
Dates of Project Period: 05/01/06-04/30/08
Role on Project: PI
Percent Effort: 0% (equipment only grant)
Total Dollar Amount: \$500,000

Agency: Department of Education
Identifying Number: U215K032300
Title of Project: Early Detection of Developmental Dyslexia
Dates of Project Period: 10/01/2003-09/30/06
Role on Project: PI
Percent Effort: 10%
Total Dollar Amount: \$347,676

Agency: Department of Education
Identifying Number: H324E050010
Title of Project: Early Detection of Developmental Dyslexia
Dates of Project Period: 10/01/2005-09/30/08

Role on Project: PI
Percent Effort: 10%
Total Dollar Amount: \$247,999

Agency: National Geospatial Intelligence Agency
Identifying Number: HM1582-05-C-0045
Title of Project: A System for Enhanced Analyst Target Detection
Using Electrophysiology and Near Infra-Red Spectroscopy
Dates of Project Period: 09/30/05-03/31/07
Role on Project: PI
Percent Effort: 15%
Total Dollar Amount: \$997,536

PUBLICATIONS –

Original Papers in Refereed Journals

VanMeter JW, Maisog J.Ma, Zeffiro TA, Hallet M, Herscovitch P, Rapoport SI. *Parametric Analysis of Functional Neuroimages: Application to a Variable-Rate Motor Task* (1995). *NeuroImage* 2:273-283.

Eden GF, **VanMeter JW**, Rumsey JM, Maisog J.Ma, Woods RP, Zeffiro TA. *Abnormal Processing of Visual Motion in Dyslexia* (1996). *Nature* 382:66-69.

Mentis MJ, Horwitz B, Grady CL, Alexander GE, VanMeter JW, Maisog J.Ma, Pietrini P, Shapiro MB, Rapoport SI. *Visual Cortical Dysfunction in Alzheimer's Disease Evaluated with a Temporally Graded "Stress Test" During PET* (1996). *American Journal of Psychiatry* 153(1):32-40.

Eden GF, **VanMeter JW**, Rumsey JM, Zeffiro TA. *The Visual Deficit Theory of Dyslexia*. *Neuroimage*. (1996) 4(3 Pt 3):S108-17.

Zeffiro TA, Eden GF, Woods RP, **VanMeter JW**,. *Intersubject Analysis of fMRI Data using Spatial Normalization* (1997). *Advances in Experimental Medical Biology* 413:235-40.

Furey ML, Pietrini P, Haxby JV, Alexander GE, Lee HC, **VanMeter JW**, Grady CL, Shetty U, Rapoport SI, Shapiro MB, Freo U. *Cholinergic Stimulation Alters Performance and Task-specific Regional Cerebral Blood Flow during Working Memory* (1997). *Proceedings of the National Academy of Sciences Jun* 10;94(12):6512-6.

Grady CL, **VanMeter JW**, Maisog J.Ma, Pietrini P, Krasuski JS, Rauschecker JP. *Attention-related Modulation of Activity in Primary and Secondary Auditory Cortex* (1997). *NeuroReport* 8(11):2511-6.

Beason-Held LL, Purpura KP, **VanMeter JW**, Azari NP, Mangot DJ, Optican LM, Mentis MJ, Alexander GE, Grady CL, Horwitz B, Rapoport SI, Shapiro MB. *PET Reveals Occipitotemporal Pathway Activation during Elementary Form Perception in Humans* (1998). *Visual Neuroscience* 15(3):1-8.

Beason-Held LL, Purpura KP, Krasuski JS, Maisog J.Ma, Daly EM, Mangot DJ, Desmond RE, Optican LM, Rapoport SI, Shapiro MB, and **VanMeter JW**. *Cortical Regions Involved in Visual Texture Perception: An fMRI Study* (1998). *Cognitive Brain Research* 7:111-8.

Beason-Held LL, Purpura KP, Krasuski JS, Desmond RE, Mangot DJ, Daly EM, Optican LM, Rapoport SI, **VanMeter JW**. *Striate Cortex in Humans Demonstrates the Relationship Between Activation and Variations in Visual Form* (2000). *Experimental Brain Research* 130(2):221-6.

Wessinger CM, **VanMeter JW**, Tian B, Van Lare J, Pekar J, Rauschecker JP. *Hierarchical organization of the human auditory cortex revealed by functional magnetic resonance imaging* (2001). *Journal of Cognitive Neuroscience* 13(1):1-7.

Blake P, Johnson B, **VanMeter JW**, *Positron Emission Tomography (PET) and Single Photon Emission Computed Tomography (SPECT): Clinical Applications* (2003). *Journal of Neuro-ophthalmology* 23(1):34-41.

Flowers DL, Jones K, Noble K, **VanMeter JW**, Zeffiro TA, Wood FB, Eden GF. *Attention to single letters activates left extrastriate cortex* (2004). *Neuroimage*. 21(3):829-39.

Fricke, S.T., Rodriguez, O., **VanMeter, JW**, Dettin, L., Casimiro, M., Chien, C., Newell, T., Johnson, K. Ileva, L., Ojeifo, J., Johnson, M., Albanese, C, *In Vivo Magnetic Resonance Volumetric and Spectroscopic Analysis of Mouse Prostate Cancer Models* (2006). *The Prostate* 66(7):708-717.

Rodriguez O, Fricke S, Chien C, Dettin L, **VanMeter JW**, Shapiro E, Dai HN, Casimiro M, Ileva L, Dagata J, Johnson MD, Lisanti MP, Koretsky A, Albanese C. *Contrast-enhanced in vivo imaging of breast and prostate cancer cells by MRI* (2006). *Cell Cycle*. 113-9.

Kalbfleisch M.L., VanMeter, J.W., Zeffiro, T. *The influences of task difficulty and response correctness on neural systems supporting fluid reasoning* (2006). *Cognitive Neurodynamics*. 1(1):71-84.

Evans AC; Brain Development Cooperative Group. *The NIH MRI*

study of normal brain development (2006). *Neuroimage*. 30(1):184-202.

Jiang, X., Rosen, E., Zeffiro, T., **Vanmeter, JW**, Blanz, V., Riesenhuber, M., *Evaluation of a shape-based model of human face discrimination using fMRI and behavioral techniques* (2006). *Neuron*. 50(1):159-72.

Waber DP, De Moor C, Forbes PW, Almli CR, Botteron KN, Leonard G, Milovan D, Paus T, Rumsey J; Brain Development Cooperative Group. *The NIH MRI study of normal brain development: performance of a population based sample of healthy children aged 6 to 18 years on a neuropsychological battery* (2007). *J Int Neuropsychol Soc*. 2007 Sep;13(5):729-46.

Almli, C.R., Rivkin, M.J., McKinstry, R.C., Brain Development Cooperative Group. *The NIH MRI study of normal brain development (Objective-2): Newborns, infants, toddlers, and preschoolers* (2007). *Neuroimage*. 35(1):308-25.

Obleser, J., Zimmermann, **VanMeter, JW**, Rauschecker, J.P., *Multiple stages of auditory speech perception reflected in event-related fMRI* (2007). *Cerebral Cortex*. 17(10):2251-7.

Jiang, X, Bradley, E, Rini, RA, Zeffiro, T, **VanMeter, JW**, and Maximilian Riesenhuber, M, *Categorization Training Results in Shape- and Category-Selective Human Neural Plasticity* (2007). *Neuron*. 53(6):891-903.

Gropman A.L., Seltzer R.R., Yudkoff M., Sawyer A., **VanMeter J.W.**, Fricke S.T., *(1)H MRS allows brain phenotype differentiation in sisters with late onset ornithine transcarbamylase deficiency (OTCD) and discordant clinical presentations* (2008). *Mol Genet Metab*. 94(1):52-60.

Gropman A.L., Fricke S.F., Seltzer R.R., Hailu A., Adeyemo A., Sawyer A., **VanMeter J.W.**, Gaillard W.D., McCarter R. Tuchman M., Batshaw, M.L., *1H MRS identifies symptomatic and asymptomatic subjects with partial ornithine transcarbamylase deficiency* (2008). *Mol Genet Metab*. 95(1-2):21-30.

Kurland J., Cortes C.R., Wilke M., Sperling A.J., Lott S.N., Tagamets M.A., **VanMeter J.W.**, Friedman R.B. *Neural Mechanisms Underlying Learning Following Semantic Mediation Treatment in a Case of Phonologic Alexia* (2008). *Brain Imaging and Behavior*. 2(3):147-162.

Medvedev AV, Kainerstorfer J, Borisov SV, Barbour RL, **VanMeter J.W.** *Event-related fast optical signal in a rapid object recognition task: Improving detection by the independent*

component analysis (2008). *Brain Research*. 1236:145-58.

Bhatt S., Mbwana J., Adeyemo A., Sawyer A., Hailu A., **VanMeter J.W.** *Lying about facial recognition: an fMRI study. Brain and Cognition* (2009). 69(2):382-90.

Leppert, I.R., Eng, M., Almli, C.R., McKinstry, R.C., Mulkern, R.V., Pierpaoli, C., Rivkin, M.J., Pike, G.B., **Brain Development Cooperative Group.** *T1 relaxometry of normal pediatric brain development* (2009). *J Magnetic Resonance Imaging*. 29(2): 258-67.

Karama, S., Ad-Dab'bagh Y., Haier R.J., Deary I.J., Lyttelton O.C., Lepage C., Evans A.C., **Brain Development Cooperative Group.** *Positive association between cognitive ability and cortical thickness in a representative US sample of healthy 6 to 18 year-olds* (2009). *Intelligence*. 37(2):145-55.

Lee P.S., Yerys B.E., Della Rosa A., Foss-Feig J., Barnes K.A., James J.D., **VanMeter J.W.**, Vaidya C.J., Gaillard W.D., Kenworthy L.E. *Functional connectivity of the inferior frontal cortex changes with age in children with autism spectrum disorders: An fMRI study of response inhibition* (2009). *Cerebral Cortex*. 19(8):1787-94.

Renier, L., Anurova, I., DeVolder, A., Carlson, S., **VanMeter J.W.**, and Rauschecker, J. *Multisensory integration of sounds and vibro-tactile stimuli in processing streams for "what" and "where"* (2009). *Journal of Neuroscience*. 29(35):10950-60.

Yerys B.E., Jankowski K.F., Shook D., Rosenberger L.R., Barnes, K.A., Berl, M.M., Ritzl, E.K., **VanMeter J.W.**, Vaidya C.J., Gaillard W.D. *The fMRI success rate of children and adolescents: Typical development, epilepsy, attention deficit/hyperactivity disorder, and autism spectrum disorders* (2009). *Human Brain Mapping*. 30(10):3426-35.

James, G.A., Lu, Z-L, **VanMeter, J.W.**, Sathian, K., Hu, X.P., Butler, A.J. *Changes in resting-state effective connectivity in the motor network following rehabilitation of upper-extremity post-stroke paresis* (2009). *Topics in Stroke Rehabilitation*. 16(4):270-81.

Leppert IR, Almli CR, McKinstry RC, Mulkern RV, Pierpaoli C, Rivkin MJ, Pike GB, **Brain Development Cooperative Group.** *T(2) relaxometry of normal pediatric brain development* (2009). *J Magn Reson Imaging*. 29(2):258-67.

Yoon U, Fonov VS, Perusse D, Evans AC, **Brain Development Cooperative Group.** *The effect of template choice on*

morphometric analysis of pediatric brain data (2009). *Neuroimage*. 45(3):769-77.

You, X., Bernal, B., Guillen, M., Ayala, M., Barreto, A., Rische, N., Sullivan, J., Dlugos, D., Berl, M., **VanMeter, J.W.**, Morris, D., Donner, E., Bjornson, B., Smith, M.L., Gaillard, W.D., Adjouadi, M. *A Decisional Space for fMRI Pattern Separation Using the Principal Component Analysis - A Study of the Language Network in Pediatric Localization Related Epilepsy* (In Press). Computational Intelligence and Neuroscience.

Reviews or Editorials in Refereed Journals

Books or Chapters in books, and publications in other journals

VanMeter, J. W. (In Press). *Neuroimaging: Thinking in Pictures. Scientific and Philosophical Perspectives in Neuroethics*. J.J. Giordano and B. Gordijn. Ed., Cambridge, Cambridge University Press.

Abstracts (2009 only)

Brar, J., Kalbfleisch M.L., Chandrasekher L., Warburton S.M., Girton L.E., Hailu A., Wolfe A., Mease E., Mbwana J.S., Gaillard W.D., **VanMeter, J.W.** *Differences in Response Conflict in Autism Spectrum Disorders*. Organization of Human Brain Mapping. San Francisco, CA., 2009.

James, G.A., Lu, Z.L., **VanMeter, J.W.**, Sathian, K., Hu, X.P., Butler, A.J. *Changes in resting-state motor network effective connectivity following upper-extremity rehabilitation in acute stroke*. Organization of Human Brain Mapping. San Francisco, CA., 2009.

Gerner, T.M., Brar, J., Kalbfleisch M.L., **VanMeter, J.W.** *Classification of Subtypes in a Pediatric Sample with Autism Spectrum Disorders*. Organization of Human Brain Mapping. San Francisco, CA., 2009.

Jones, D.T., Brar, J., Shtattuck, K.F., **VanMeter, J.W.** *Choline Functional Magnetic Resonance Spectroscopy Correlated with BOLD Deactivations in the Default Mode Network*. Organization of Human Brain Mapping. San Francisco, CA., 2009.

Jones, D.T., Shtattuck, K.F., Brar, J., **VanMeter, J.W.** *Independent Component Analysis of the Dynamics of Anticorrelations with the Central Executive Network Reveals Hemispheric Specialization*. Organization of Human Brain Mapping. San Francisco, CA., 2009.

Medvedev, A.V., Borisov, S.V., Kainerstorfer, J., **VanMeter, J.W.** *Early Interaction between Bottom-Up and Top-Down Processes in the Beta-Gamma Band during Ultra-Rapid Visual Object Detection.* Organization of Human Brain Mapping. San Francisco, CA., 2009.

Medvedev, A.V., Borisov, S.V., Kainerstorfer, J., John **VanMeter, J.W.** *Early Interaction between Bottom-Up and Top-Down Processes in the Beta-Gamma Band during Ultra-Rapid Visual Object Detection.* Australasian Winter Conference on Brain Research, Queenstown, New Zealand, 2009.

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