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John W Vanmeter
Associate Professor on the Research Track
Director, Center for Functional and Molecular
Imaging Associate Professor, Dept of Neurology

Biography

* Dr. VanMeter has significant expertise in the analysis of magnetic resonance imaging (MRI) data. His graduate work involved the development of computer algorithms used for the analysis of white matter and gray matter segmentation in structural MRI scans. Before joining the faculty at Georgetown, he was a staff fellow in the Laboratory of Neuroscience in the National Institute of Aging, where he co-authored the first paper to use fMRI to investigate dyslexia. Dr. VanMeter has led the development of a number of major software programs as the Director of Research and Development at Sensor Systems, Inc. This includes a commercial software package that is utilized at over 300 research institutions worldwide in the analysis of multi-modal datasets including structural MRI and fMRI as well as the subsequent development of one of the first FDA cleared fMRI clinical analysis package.

* Recently, he has developed a coordinated data analysis platform for all data collected and analyzed in the Center for Functional and Molecular Imaging (CFMI). In addition, he is developing a database integrating neuroimaging data (e.g. MRI and near-infrared optical) and neuropsychological and behavioral measures improving data management and allowing for mining of the CFMI.

Education

* Ph.D. (1993) Dartmouth College, Computer Science
* M.S. (1991) Dartmouth College, Computer Science
* B.S. (1987) University of Oklahoma, Computer Science

Research Interest

* My research focuses on emotion regulation and the role of key cortical areas in modulating emotional reactivity. I have been studying this using neuroimaging techniques in autism and posttraumatic stress disorder. In addition, I study deception detection using fMRI.

Publications

* **Articles in journals**
* Bhatt S., Mbwana J., Adeyemo A., Sawyer A., Hailu A., VanMeter J.W.."**Lying about facial recognition: an fMRI study**." *Brain and Cognition* 69.2 (2009): 382-390.
* Medvedev A.V., Kainerstorfer J., Borisov S.V., Barbour R.L., VanMeter J.W.. "**Event-related fast optical signal in a rapid object recognition task: Improving detection by independent component analysis**." *Brain* 1236 (2008): 145-158.
* Jiang, X., Bradley, E., Rini, R.A., Zeffiro, T., VanMeter, J.W., and Riesenhuber, M.. "**Categorization training results in shape- and category-selective human neural plasticity**." *Neuron* 53.6 (2007): 891-903.
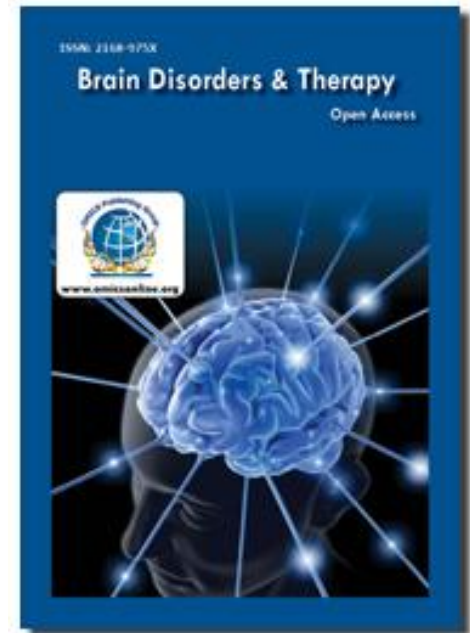
Articles in Books

* **Articles in books**

* VanMeter, J.W.. "**Neuroimaging: Thinking in Pictures**." Scientific and Philosophical Perspectives in Neuroethics. Ed. J.J. Giordano and B. Gordijn. Cambridge: Cambridge University Press, 2010.

Related journals

☐ **Journal of Neurological Disorders**

☐ **Journal of Multiple Sclerosis**

☐ **Alzheimer's Disease & Parkinsonism**

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