Megan E. Johnston

Wake Forest University School of Medicine
Virginia Tech – Wake Forest University School of Biomedical Engineering and Sciences

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Education

Wake Forest University
Ph.D. Student, Biomedical Engineering, Medical Physics
Research Lab: Advanced Neuroscience Imaging Research (ANSIR) Laboratory
Advisor: Dr. Youngkyoo Jung
Expected completion: 2016
GPA: 3.9

Vanderbilt University, 2011
Bachelor of Engineering in Biomedical Engineering
GPA: 3.6

Professional Experience

Graduate Researcher, August 2011 - Present
Advanced Neuroscience Imaging Research Laboratory (ANSIR)
Virginia Tech – Wake Forest School of Biomedical Engineering and Sciences
Wake Forest Univerity School of Medicine
Winston-Salem, North Carolina

Summer Research Fellow, June 2011 – August 2011
Wake Forest Baptist Medical Center, Department of Plastic Surgery
Winston-Salem, North Carolina

Research Assistant, June 2010 – August 2010
Vanderbilt University Institute for Imaging Science, Center for Small Animal Imaging
Nashville, Tennessee

Undergraduate Researcher, May 2009 – August 2009
Vanderbilt University Department of Biomedical Engineering
Reseach Experience for Teachers Program
Nashville, Tennessee

Bibliography

Publications:

Johnston, ME, Zheng, Z, Maldjian, JA, Whitlow, CT, Morykwas, MJ, Jung, Y. "Cerebral Blood Flow Quantification in Swine using Pseudo-Continuous Arterial Spin Labeling" Journal of Magnetic Resonance Imaging. In Press.

Klein-Gardner, SS, **Johnston, ME**, and Benson, L (2012) "Impact of RET Teacher-Developed Curriculum Units on Classroom Experiences for Teachers and Students," Journal of Pre-College Engineering Education Research (J-PEER): Vol. 2: Iss. 2, Article 4.

Conference Proceedings:

Johnston, ME, Zheng, Z, Maldjian, J, Whitlow, CT, Morykwas, MJ, Jung, Y, "Cerebral Blood Flow Quantification in Swine Model using Pseudo-Continuous Arterial Spin Labeling." International Society of Magnetic Resonance in Medicine 20th Annual Meeting, Melbourne, Australia, May 2012

Jung, Y, **Johnston, ME**. "Improved Temporal Resolution and Reduced Geometric Distortions using Interleaved 3D Spiral Acquisition for Arterial Spin Labeling Imaging." International Society of Magnetic Resonance in Medicine 20th Annual Meeting, Melbourne, Australia, May 2012.

Oral Presentations:

Johnston, Megan, "Cerebral Blood Flow Imaging with MRI" IEEE Winston-Salem Chapter Meeting, October, 2012.

Poster Presentations:

Johnston, ME, Zheng, Z, Maldjian, J, Whitlow, CT, Morykwas, MJ, Jung, Y, "Cerebral Blood Flow Quantification in Swine Model using Pseudo-Continuous Arterial Spin Labeling." Virginia Tech - Wake Forest University School of Biomedical Engineering and Sciences Symposium, May 2012.

Johnston, ME, Zheng, Z, Maldjian, J, Whitlow, CT, Morykwas, MJ, Jung, Y, "Cerebral Blood Flow Quantification in Swine Model using Pseudo-Continuous Arterial Spin Labeling." Wake Forest University Graduate Student and Postdoc Poster Day, March 2012.

Ingram, ME, **Johnston, ME**, Samson, CR, "Abdominal Fascia Tension Measurement during Open Hernia Surgery." Vanderbilt University Engineering Senior Design Poster Day, April 2011.

Awards and Honors

Educational Stipend to 20th ISMRM, Melbourne, Australia, 2012

Virginia Tech – Wake Forest University School of Biomedical Engineering Sciences Graduate Research Assistantship, 2011 – 2012

Dean's List 5 of 8 semesters, Vanderbilt University, 2007-2011

Leadership

Engineering in Medicine and Biology Society, Wake Forest Chapter President, 2012 – Present

Winston-Salem Section of IEEE, Graduate Student Activities Committee Chair, 2012 – Present

Membership

International Society of Magnetic Resonance in Medicine, Student Member, 2011 – Present

Institute of Electrical and Electronics Engineers, Student Member, 2012 – Present
Winston-Salem, North Carolina Chapter

Biomedical Engineering Society, 2011 – Present
Virgina Tech –Wake Forest University Chapter