

Victoria N. Poole

EDUCATIONAL EXPERIENCE

- 2014 **Ph.D.**, Biomedical Engineering, Purdue University, West Lafayette, IN
GPA: 3.47; Primary Mentors: Thomas M. Talavage, Ulrike Dydak
Area of specialization: Research applications of magnetic resonance
imaging and spectroscopy in neural health and pathology
- 2009 **B.S.**, Chemistry (Applied Mathematics Minor), Oakwood University,
Huntsville, AL; GPA: 3.66

PROFESSIONAL EXPERIENCE

- 2014 - Present **Postdoctoral Fellow**, Beth Israel Deaconess Medical Center / VA Boston
Healthcare System, Boston, MA
- 2010–2014 **Graduate Fellow**, Interdisciplinary Biomedical Sciences (IBS),
Purdue University, West Lafayette, IN
- Summer 2013 **Research Assistant**, Brain Injury Research Program, Rehabilitation
Institute of Chicago; Parrish Neuroimaging Laboratory, Northwestern
University, Chicago, IL
- Summer 2010 **Research Assistant**, Cognitive Motor Control Lab, Georgia Institute of
Technology, Atlanta, GA
- 2008-2009 **Intern**, Rapid Prototyping Lab, NASA Marshall Space Flight Center,
Redstone Arsenal, AL
- 2008-2009 **Research Assistant**, Chemistry Department, Oakwood University,
Huntsville, AL
- Summer 2007 **Intern**, Quality Assurance, NASA Marshall Space Flight Center,
Redstone Arsenal, AL
- 2006 **Research Assistant**, Physics Department, Oakwood University,
Huntsville, AL

TEACHING EXPERIENCE

- 2013 **Teaching Assistant**, Graduate level Molecular Imaging, Purdue University
- 2012 **Teaching Assistant**, Graduate level Biostatistics, Purdue University
- 2008 - 2009 **Undergraduate Tutor**, Chemistry Department, Oakwood University
- 2008 **Lab Instructor**, Undergraduate General Physics, Oakwood University
- 2007 - 2008 **K-12 Tutor**, Humphreys' Tutoring & Enrichment Center, Huntsville, AL

INSTITUTIONAL SERVICE

- 2013 - 2014 **Chair**, Social, Adventist Collegiate Fellowship at Purdue
- 2012 - 2014 **Chair**, Public Information, Purdue Graduate Student Government
- 2011 - 2014 **Senator**, IBS, Purdue Graduate Student Government
- 2008 - 2009 **President**, Oakwood University Math and Computer Science Club
- 2007 - 2008 **Vice President**, Oakwood University Math and Computer Science Club

Victoria N. Poole

HONORS/AWARDS

2014	Institutional NRSA Post-Doctoral Training Fellowship (T32), BIDMC/Harvard
2013	ISMIRM Magna Cum Laude Merit Award
2013 - 2014	Best Biomedical Sciences Presentation, Purdue IGP Reception
2013	ISMIRM 42nd Annual Meeting Educational Stipend
2012	Joe Bourland Graduate Student Travel Award, Purdue University
2012	SfN Indianapolis Chapter Annual Meeting Best Poster Award
2009 - 2014	George Washington Carver PhD Fellowship, Purdue University
2009	Excellence Scholarship, Oakwood University Chemistry Department
2009	First Place Physical Sciences Poster Award, ALSAMP
2008	Alabama Louis Stokes (ALSAMP) Scholarship
2007	United Giving Scholarship, Oakwood University Math Department
2005 - 2009	National Merit Commendation Scholarship, Oakwood University

AWARDED GRANTS

Principal Investigator (co-PIs: E. Breedlove, K. Breedlove), Purdue Graduate Student Government (PGSG) Discovery, Engagement, And Learning Grant, "Normative Data for Neurocognitive Impairment in High School Athletes," May 2012; \$2,500.

PROFESSIONAL ORGANIZATIONS

2013 - Present	Collegiate Member , National Society of Black Engineers
2013 - Present	Student Member , International Society for Magnetic Resonance in Medicine
2012 - Present	Student Member , Society for Neuroscience
2012 - 2013	Student Member , Cognitive Neuroscience Society
2008 - 2010	Student Member , American Chemical Society

PUBLICATIONS

Poole V., Breedlove E., Shenk T., Abbas K., Robinson M., Leverenz L., Nauman E., Dydak U., Talavage T. Sub-concussive Head Impacts Contribute to Deviant Brain Metabolism in Football Athletes. *Journal of Developmental Neuropsychology* 40.1 (2015): 12-17.

Abbas K., Shenk T., **Poole V.**, Robinson M., Leverenz L., Nauman E., Talavage T. Effects of Repetitive Sub-concussive Hits on the Functional Connectivity of Default Mode Network in High School Football Athletes. *Journal of Developmental Neuropsychology* 40.1 (2015): 51-56.

Abbas K., Shenk T., **Poole V.**, Breedlove E., Leverenz L., Nauman E., Talavage T., Robinson M., Alteration of Default Mode Network in High School Football Athletes Due to Repetitive Subconcussive Mild Traumatic Brain Injury: A Resting-State Functional Magnetic Resonance Imaging Study. *Brain Connectivity* (2014): *In Press*.

Poole V., Abbas K., Shenk T., Breedlove E., Breedlove K., Robinson M., Leverenz L., Nauman E., Talavage T., Dydak U. MR Spectroscopic Evidence of Brain Injury in the Non-diagnosed Collision Sport Athlete. *Journal of Developmental Neuropsychology* 39.6 (2014): 459-473.

Victoria N. Poole

PUBLICATIONS (CONT.)

Breedlove K.M., Breedlove E.L., Robinson M., **Poole V.N.**, King J.R., Rosenberger P., et al. Detecting Neurocognitive & Neurophysiological Changes as a Result of Subconcussive Blows in High School Football Athletes. *Athletic Training & Sports Health Care* 6 (2014): 119-127.

Anthony J. R., **Poole V. N.**, Sexton K. W., Wang L., Mueller M. A., Guillamondegui O., Thayer W. P. "Tennessee emergency hand care distributions and disparities." *HAND* 8.2 (2013): 172-178.

Natraj N., **Poole V.**, Mizelle J.C., Flumini A., Borghi A.M., Wheaton L.A. Context and hand posture modulate the neural dynamics of tool-object perception. *Neuropsychologia* 51.3 (2013): 506-519.

Osei A.J., **Poole V.** Radiated Pressure Field Calculations of Axisymmetric Ultrasonic Disc Transducers. *Journal of Alabama Academy of Science* 78.2 (2007).

INVITED TALKS

Poole V. MRS to Track Neuro-Metabolic Changes in High School Contact Sport Athletes. Purdue University School of Health Sciences Seminar, West Lafayette, IN; October 2013.

Poole V. Quantifying Neuro-metabolites using Magnetic Resonance Spectroscopy in Contact Sport Athletes. Purdue University BME Summer Seminar Series, West Lafayette, IN; July 2011.

SELECTED ABSTRACTS/POSTER PRESENTATIONS

Poole V., Breedlove K., Shenk T., Abbas K., Robinson M., Breedlove E., Leverenz L., Nauman E., Dydak U., Talavage T. Neurometabolic Influences on ImpACT Cognitive Testing in Collision Athletes. Big Sky Athletic Training and Sports Medicine Conference, Big Sky, MT; February 2014; and Purdue University Office of Interdisciplinary Graduate Program (OIGP) Spring Reception, West Lafayette, IN; April 2014.

Poole V., Leverenz L., Nauman E., Dydak U., Talavage T. Spectroscopic Analysis of Neuro-metabolic Changes in Female Soccer Players. Organization for Human Brain Mapping 19th Annual Meeting, Seattle, WA; June 2013.

Poole V., Leverenz L., Nauman E., Talavage T, Dydak U. ¹H MRS Suggests Chronic and Acute Injury in High School Football Players. ISMRM 21st Annual Meeting; Salt Lake City, UT; and Purdue University Office of Interdisciplinary Graduate Program (OIGP) Spring Reception, West Lafayette, IN; April 2013.

Poole V., Breedlove E., Robinson M., Breedlove K., Leverenz L., Nauman E., Dydak U., Talavage T. Asymptomatic high school contact sports athletes exhibit metabolic changes that correlate with head collision history. Society for Neuroscience Annual Meeting; New Orleans, LA; October 2012.

ABSTRACTS/POSTER PRESENTATIONS (CONT.)

Natraj N., **Poole V.N.**, Mizelle J.C., Flumini A., Borghi A.M. & Wheaton L., Context and Hand Posture Modulate the Neural Dynamics of Tool-Object Perception. Cognitive Neuroscience Society Annual Meeting (CNS); San Francisco, CA; April 2011.

Poole V., Anthony J., Nelson D., Lai Hing K. Preparation and characterization of gold, platinum, silver and iron thiol-derivatized nanoparticles. Annual ALSAMP Conference - Auburn, AL; and American Chemical Society (ACS) Annual Conference; Salt Lake City, UT; March and April 2009.