



John Muschelli

Education

- 2008–2010 **ScM**, *Johns Hopkins School of Public Health*, Baltimore, MD.
Area of Study: fMRI brain image data analysis
Thesis Topic: *An Iterative Approach to Hemodynamic Response Function Temporal Derivatives in Statistical Parametric Mapping for Functional Neuroimaging*
Adviser: Professor Brian Caffo
- 2004–2008 **BS**, *The University of Scranton*, Scranton, PA, GPA: 3.87.
Majors: Biomathematics and Neuroscience
Summa Cum Laude
Advisers: Professor Jakub Jasinski, Professor J. Timothy Cannon

Professional Experience

- 2009–Present **Research Associate**, *Johns Hopkins Biostatistics Center (JHBC)*, Baltimore, MD.
Collaborated on statistical projects with senior consultants.
Report writing and analyzing data using statistical software: R, Stata.
Cleaning and checking quality of data
- 2010–Present **Data Analyst**, *Laboratory for Neurocognitive and Imaging Research at Kennedy Krieger Institute*, Baltimore, MD.
Analysis of functional MRI (fMRI) imaging studies
Programming consultant: Matlab & R.
Participation in the ADHD 200 Competition
- 2008 **Intern**, *Analysis & Inference*, Swarthmore, PA.
Cooperated on statistical projects and conferenced with clients about possible analysis options.
Report writing of analyses: Stata
Data cleaning
- 2007 **Research Intern**, *Dupont Stine-Haskell Laboratory*, Wilmington, DE.
Developed lab skills and techniques: cell culturing, making and sterilizing broth media, optical density readings, inoculations, quality control, cell counts, screening for fungicidal properties of compounds.

Publications

- [1] H.E. Hinson, E. Melnychuk, **Muschelli, J.**, D.F. Hanley, I.A. Awad, and W.C. Ziai. Drainage efficiency with dual versus single catheters in severe intraventricular hemorrhage. *Neurocritical Care*, pages 1–7, 2011.
- [2] J. Jaffe, E. Melnychuk, **Muschelli, J.**, W. Ziai, T. Morgan, D.F. Hanley, and I.A. Awad. Ventricular catheter location and the clearance of intraventricular hemorrhage. *Neurosurgery*, 2011.
- [3] D.W. Newell, M.M. Shah, R. Wilcox, D.R. Hansmann, E. Melnychuk, **Muschelli, J.**, and D.F. Hanley. Minimally invasive evacuation of spontaneous intracerebral hemorrhage using sonothrombolysis. *Journal of neurosurgery*, pages 1–10, 2011.

- [4] M.F. Niedner, W.C. Huskins, E. Colantuoni, **Muschelli, J.**, JM li, T.B. Rice, R.J. Brilli, and M.R. Miller. Epidemiology of central line-associated bloodstream infections in the pediatric intensive care unit. *Infection control and hospital epidemiology: the official journal of the Society of Hospital Epidemiologists of America*, 32(12):1200, 2011.

Computer skills

Scripting	Proficient: R, Stata, Matlab, Novice: SAS	Markup	T _E X, L ^A T _E X, B _I B T _E X, TeXShop, WinEdt
Programming	C++, Visual Basic		

Honors and Awards

2007–2008	Presidential Scholar (Full Tuition Scholarship).
2004–2008	Dean’s List.
2004	Alpha Lambda Delta.
2008	Alpha Sigma Nu.

Academic Service

2010–Present	Mentor, Head of Household, Incentive Mentoring Program. Mentor and tutor a student from Dunbar High School, teaching coursework, life skills, support as needed.
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