John Muschelli

PART 1

Personal Data

Johns Hopkins School of Public Health, Department of Biostatistics:
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All links to sites are in blue and are clickable.

Education and Training

Johns Hopkins School of Public Health, Baltimore, Maryland USA

ScM, Biostatistics (May 2010)

- Thesis Topic: *A Critical Review of HRF Derivatives in SPM for Functional Neuroimaging*
- Adviser: Professor Brian Caffo
- Area of Study: fMRI brain image data analysis

The University of Scranton, Scranton, Pennsylvania USA

B.S., Biomathematics and Neuroscience (Summa Cum Laude) (May 2008)

- Adviser: Professor Jakub Jasinski
- Area of Study: Biomathematics

- Adviser: Professor J. Timothy Cannon
- Area of Study: Neuroscience

Professional Experience

Johns Hopkins Biostatistics Center (JHBC), Baltimore, Maryland USA

Junior Statistical Consultant **January 2009 to Present**

- Collaborated on statistical projects with senior consultants.
- Report writing and analyzing data using statistical software: R, Stata.
- Cleaning and checking quality of data.

Laboratory for Neurocognitive and Imaging Research at Kennedy Krieger Institute, Baltimore, Maryland USA

Data Analyst **September 2010 to Present**

- Analyzing functional MRI (fMRI) time series of participants.
- Programming consultant: Matlab & R.

Analysis & Inference, Springfield, Pennsylvania USA

Statistical Assistant **June 2008 to August 2008**

- Cooperated on statistical projects and conferenced with clients about possible analysis options.
- Report writing of analyses: Stata
- Data cleaning

Dupont, Stine-Haskell Laboratory, Wilmington, Delaware USA

Research Interm **June 2007 to August 2007**

- 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

Hinson, H., Melnychuk, E., Muschelli, J., Hanley, D., Awad, I., and Ziai, W. (2011). Drainage efficiency with dual versus single catheters in severe intraventricular hemorrhage. *Neurocrit Care*.

Newell, D., Shah, M., Wilcox, R., Hansmann, D., Melnychuk, E., Muschelli, J., and Hanley, D. (2011). Minimally invasive evacuation of spontaneous intracerebral hemorrhage using sonothrombolysis. *J Neurosurg*.

(In Review) Newell, D. Shah, M. Wilcox, R. Hansmann, D, Melnychuk, E. Muschelli, J. Hanley, D. **Minimally invasive evacuation of spontaneous intracerebral hemorrhage using sonothrombolysis.** *Journal of Neurosurgery*

(In Review) Jaffe, J. Melnychuk, E. Muschelli, J. Ziai, W. Morgan, T. Hanley, D. Awad, Issam. **Ventricular catheter location and the clearance of intraventricular hemorrhage.** *Journal of Neurosurgery*

Honors and Awards

The University of Scranton

- Presidential Scholar (Full Tuition Scholarship), 2004-2008
- Dean's List, 2004-2008
- Alpha Lambda Delta, 2004
- Alpha Sigma Nu, 2008

Part 2

Teaching Experience

Johns Hopkins School of Public Health, Baltimore, Maryland USA

Teaching Assistant **September 2010 to Present**

- Biostatistics 621-4: Statistical Methods in Public Health I-IV
  - Responsible for 1 hour lab Stata session, 1 hour office hour, and grading homework, quizzes, and tests.

September 2009 to May 2010

- Biostatistics 651-4: Methods in Biostatistics I-IV
  - Responsible for 1 hour lab helping session, and grading homework and tests.

January 2010

- Biostatistics 613-4: Data Analysis Workshop I-II
  - Responsible for 4 hour lab and teaching session, helping students to get comfortable with Stata programming and interpreting results from output.

Graduate Tutor **September 2009 to Present**

- Tutored students in statistics on coursework and statistical dissertation material.

Undergraduate Tutor **March 2005 to May 2008**

- Tutored students regarding mathematics, statistics and other science courses.

Academic Service

Incentive Mentoring Program

Mentor **September 2010 to Present**

- Mentor and tutor a student from Dunbar High School, teaching coursework, life skills, support as needed.

University of Scranton

Master of Ceremonies **2005–2008**

- Midnight Madness is a kickoff campaign for the basketball season and a food-raising activity for local food kitchens.
- The Office Convention was an event where members of the television show The Office came to Scranton, students entertained crowds in between events on the stages.
- Quizzo and Royal Feud are trivia games that are fundraisers for international and domestic service programs.

F.I.R.S.T. (Freshmen In Reflective Service Together)

Leader **2007**

- Led a service trip as a senior that welcomes incoming freshmen to participate in volunteer service at the University of Scranton.
- Each team does service at various sites around the city of Scranton, namely Head Start, Little People Day Care, Lackawanna County Health Care Center.

Saint Francis of Assisi Soup Kitchen, Scranton, PA

Volunteer **2004–2005**

- Volunteered working with those running the soup kitchen.
- Tasks ranged from cleaning dishes to handing out food.

Technical Skills

Software experience in statistics and data processing, cleaning, and basic data base management.

R experience: statistical programming, survival analysis, regression modeling, fmri image analysis, packages.

SAS experience: basic programming/analysis.

StatTransfer experience: import/export of multiple data formats.

Statweave experience: programming multiple languages in one software.

Stata experience: statistical programming survival analysis, regression modeling.

Matlab experience: intermediate programming, Statistical Parametric Mapping (SPM).

Basic Programming: C++, Visual Basic

Operating Systems:
Proficient: Microsoft Windows XP/2000/Vista, Mac OS X.
Novice: Linux CentOS5

Applications: TEX, LATEX, BIBTEX, Microsoft Office, OpenOffice, TeXShop, WinEdt, WinBUGS, MikTeX, Shell.

Mathematical Experience

Linear Algebra, Real Analysis

Probability, Random Variables, and Stochastic Processes, Statistical Inference, Survival Analysis

Statistical Programming

Functional MRI (fMRI) Analysis