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 Deriva-

tives 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.

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.

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.

[2]

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1/2

[4]

M.F. Niedner, W.C. Huskins, E. Colantuoni, Muschelli, J., JM Ii, 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

Programming

Proﬁcient: R, Stata, Matlab, Novice:

SAS

C++, Visual Basic

Markup

TeX, LaTeX, BibTeX, TeXShop,

,

Honors and Awards

2007–2008

2004–2008

2004

2008

Presidential Scholar (Full Tuition Scholarship).

Dean’s List.

Alpha Lambda Delta.

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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2/2