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EDUCATION

University of Wisconsin - Madison, Madison, WI

- Ph.D. Statistics, 2014, Advisor: Richard Chappell
- Dissertation: Additive Hazards in Non-Inferiority Trials

College of William and Mary, Williamsburg, VA

- M.S. Operations Research, 2008

Rose-Hulman Institute of Technology, Terre Haute, IN

- B.S. Mathematics and Economics, 2006

EMPLOYMENT

Louisiana State University

Assistant Professor, School of Public Health, Biostatistics Sep. 2014 - Present

University of Wisconsin-Madison

Research Assistant, Department of Statistics Aug. 2012 - Aug. 2014

University of Wisconsin-Madison

Trainee, Department of Statistics Aug. 2008 - Aug. 2012

NASA Langley Research Center

Intern, Safety Critical Avionics Systems Branch June 2007 - Aug. 2007

College of William and Mary

Teaching Assistant, Department of Mathematics Aug. 2006 - May 2008

PUBLICATIONS

R. Gertz, Y. Nikiforov, W. Rehrauer, **L. S. McDaniel**, R. Lloyd. Mutation in BRAF and other members of the MAPK pathway in papillary thyroid carcinoma in the pediatric population. *Archives of Pathology & Laboratory Medicine*, 140(2):134-139, February 2016.

L. S. McDaniel, M. Yu, and R. Chappell. Sample Size Under the Additive Hazards Model. *Clinical Trials*, 13(2):188-198, November 2015.

M. D. LaFontaine, **L. S. McDaniel**, L. N. Kubicek, R. Chappell, L. J. Forrest, R. Jeraj. Fixed Effects Influencing the Variability of Distributed Parameter Based Models in DCE-CT Kinetic Analysis. Accepted to *Veterinary and Comparative Oncology*.

L. S. McDaniel, N. C. Henderson, and P. J. Rathouz. Fast Pure R Implementation of GEE: Application of the Matrix Package. *The R Journal*, 5(1):181-188, June 2013.

BOOK CHAPTERS

L. S. McDaniel, A. G. Glen, and L. M. Leemis. “Linear Approximations of Probability Density Functions.” In *Computational Probability Applications*, Springer 2017. Editors: A. G. Glen and L. M. Leemis.

PRESENTATIONS AT NATIONAL MEETINGS

L. S. McDaniel, P. J. Rathouz, and J. S. Schildcrout. Generalized Linear Models for Longitudinal Data with Biased Sampling Designs: A Sequential Offsetted Regression Approach. Joint Statistical Meetings, August 2015.

L. S. McDaniel. Sparse Matrix Computation in R with an Application to GEEs. Conference on Statistical Practice, February 2015.

L. S. McDaniel, M. Yu, and R. Chappell. Sample Size Under the Additive Hazards Model. Joint Statistical Meetings, August 2014.

L. S. McDaniel, M. Yu, and R. Chappell. Sample Size Under the Additive Hazards Model. The Annual Meeting of the Society for Clinical Trials, May 2014.

R. Chappell and **L. S. McDaniel**. Imbalanced Randomization in Non-inferiority Trials can be Highly Efficient. Eastern North American Region of the International Biometrics Society Meeting, March 2014.

P. J. Rathouz, **L. S. McDaniel**, and J. S. Schildcrout. Robust Outcome-Dependent Sampling for Continuous- and Counted-Response Longitudinal Data. Joint Statistical Meetings, August 2013.

P. J. Rathouz, J. S. Schildcrout, and **L. S. McDaniel**. Outcome Dependent Sampling for Continuous-Response Longitudinal Data. Eastern North American Region of the International Biometrics Society Meeting, March 2013.

POSTERS AT NATIONAL MEETINGS

L. S. McDaniel. Generating Survival Times to Simulate Additive Hazards Models. Meeting of the Society for Clinical Trials, May 2016.

L. S. McDaniel, M. Yu, and R. Chappell. Testing the Proportional Versus Additive Hazards Assumptions. Meeting of the Society for Clinical Trials, May 2015.

PRESENTATIONS AT REGIONAL MEETINGS

L. S. McDaniel, M. Yu, and R. Chappell. Sample Size Under the Additive Hazards Model. Meeting of the Louisiana Chapter of the ASA, May 2015.

SOFTWARE

L. S. McDaniel, J. S. Schildcrout. SOR: Estimation using Sequential Off-setted Regression. Available on CRAN at <http://cran.r-project.org/web/packages/SOR/index.html>. September, 2014.

L. S. McDaniel. Interactive Sample Size Calculator. Available at <http://pages.stat.wisc.edu/~mcdaniel/samplesize.html>. November, 2013.

L. S. McDaniel, N. C. Henderson, P. J. Rathouz. geeM: Fit Generalized Estimating Equations. Available on CRAN at <http://cran.r-project.org/web/packages/geeM/index.html>. June, 2013.

AWARDS

Travel Award, ASA Biometrics Section, 2015. Awarded for Generalized Linear Models for Longitudinal Data with Biased Sampling Designs: A Sequential Offsetted Regressions Approach.

Finalist, Society for Clinical Trials Thomas Chalmers Student Paper Award, 2014. Awarded for Sample Size Under the Additive Hazards Model.

Third Place, ASA Biopharmaceutical Student Paper Award, 2014. Awarded for Sample Size Under the Additive Hazards Model.

Student Travel Award, INFORMS Annual Meeting, 2007.

PROFESSIONAL MEMBERSHIP

Society for Clinical Trials

American Statistical Association

Eastern North American Region of the International Biometric Society