

Lee S McDaniel

School of Public Health
LSU Health
2020 Gravier Street, 3rd Floor
New Orleans, LA 70112

2604 Upperline St.
New Orleans, LA 70115
(504) 327-9431
lmcda4@lsuhsc.edu
<http://leemcdaniel.github.io>

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

College of William and Mary

Teaching Assistant, Department of Mathematics

Aug. 2006 - May 2008

TEACHING

Course Director

BIOS 6304: Design of Experiments

BIOS 6212: Survival Analysis

BIOS 6300: Statistical Computing

BIOS 6314: Clinical Trial Methodology

Guest Lecturer

EPID 6226: Epidemiologic Design and Analysis

EPID 7200: Advanced Epidemiologic Methods

MS Thesis Advisor

Patton Osborn, "Survival Analysis Application," 05/2017 – present.

Committee Member

Christie Watters, PhD committee member, 09/2014 – present.

Omar Aldibasi, PhD committee member, 09/2014 – present.

Yi Zhai, PhD committee member, 09/2014 – 05/2017.

Jacob Maronge, MS committee member, 09/2014 – 05/2016.

Husam Ardah, PhD committee member, 09/2014 – 04/2016.

RESEARCH INTERESTS

- Survival Analysis
- Clinical Trials
- Statistical Computing
- Electronic Health Records Analysis
- Generalized Estimating Equations
- Outcome Dependent Sampling

PUBLICATIONS

L. S. McDaniel, W. J. Poynot, K. A. Gonthier, M. E. Dunham, T. W. Crosby. Image Based Three-Dimensional Characterization of Laryngotracheal Stenosis in Children. Accepted to OTO Open.

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.

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, 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.

SUBMITTED PAPERS

L. S. McDaniel, J. S. Schildcrout, E. F. Schisterman, and P. J. Rathouz. Generalized Linear Models for Longitudinal Data with Biased Sampling Designs: A Sequential Offsetted Regression Approach. Submitted to Statistical Methods in Medical Research.

PRESENTATIONS AT NATIONAL MEETINGS

L. S. McDaniel. Additive Hazards Models in Clinical Trials. Lifetime Data Analysis Conference, May 2017.

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.

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.

SERVICE
ACTIVITY

- Bachelor of Science in Public Health steering committee, 01/2017 – present.
- School of Public Health CEPH self study group, 01/2017 – present.
- Society for Clinical Trials student paper committee, 12/2016 – present.
- LSU Health graduate research day judge, 11/2016 – present.
- Faculty Assembly secretary, 07/2016 – present.
- Biostatistics qualifying exam committee, 05/2015 – present.
- Biostatistics seminar organizer, 08/2015 – 12/2016.
- School of Public Health e-learning committee, 08/2015 – present.
- Reviewer for:
 - PLOS ONE
 - The R Journal
 - Statistical Modelling
 - Statistics in Medicine
 - Biometrics

PROFESSIONAL
MEMBERSHIP

Society for Clinical Trials
American Statistical Association
Eastern North American Region of the International Biometric Society