

Nicholas C. Henderson

CONTACT INFORMATION

E-mail: nchender@umich.edu
Website: <https://nchenderson.github.io/>

EDUCATION

Johns Hopkins University, Baltimore, Maryland USA

Postdoctoral Research Fellow, 2015-2019

University of Wisconsin - Madison, Madison, Wisconsin USA

Ph.D. in Statistics, June 2015

University of Maryland - College Park, College Park, Maryland USA

M.A. in Mathematical Statistics, August 2010

B.S. with High Honors in Mathematics, May 2008

B.A. with Honors in Economics, December 2007

PROFESSIONAL EXPERIENCE

University of Michigan

Assistant Professor, Department of Biostatistics

September 2019 - present

University of Wisconsin - Madison

Teaching Assistant

August 2014 - May 2015

N.I.H. Predoctoral Fellow Trainee in Biostatistics

August 2010 - June 2014

University of Maryland - College Park

Teaching Assistant

August 2009 - May 2010

U.S. Department of Justice, Antitrust Division, Washington, District of Columbia USA

Statistician

March 2008 - August 2009

PUBLICATIONS

- [1] Kabata, D., **Henderson, N.C.** and R. Varadhan (2026). Quantifying uncertainty of individualized treatment effects in right-censored survival data: A comparison of Bayesian additive regression trees and causal survival forest, *Health Services and Outcomes Research Methodology*, **26**(1), 87-107.
- [2] Choi, C., Labriola, M., **Henderson, N.C.**, ..., McKay, R.R., and A.J. Armstrong (2026). Association between Smoking, Tumor Genetics, and Outcomes in Men with Metastatic Prostate Cancer. *Prostate Cancer and Prostatic Diseases*, In press.
- [3] Ashouri, M.[†] and **N.C. Henderson** (2026). Generalized Bayesian Additive Regression Trees for Restricted Mean Survival Time Inference. *Bayesian Analysis*, In press.
† Postdoctoral fellow
- [4] Ashouri, M.[†] and **N.C. Henderson** (2026). Evaluating and Testing for Actionable Treatment Effect Heterogeneity, *Statistical Methods in Medical Research*, In press.
† Postdoctoral fellow

- [5] Panian, J., **Henderson, N.C.**, Herchenhorn, D., ..., and R.R. McKay (2025). Association of Genomic Alterations with Outcomes in Patients with PSMA-positive Metastatic Castration-Resistant Prostate Cancer treated with 177 Lu-PSMA-617. *The Oncologist*, **30**(11), oyaf358.
- [6] Kilari, D., **Henderson, N.C.**, Yamamoto, K., Yao, Y.[‡], ..., and R.R. McKay (2025). Impact of SPOP mutations on clinical outcomes in metastatic prostate cancer. *JCO Precision Oncology* **9**, e2500590.
‡ PhD student
- [7] **Henderson, N.C.** and Z. Ouyang[‡] (2025). Parameter-expanded ECME algorithms for Logistic and Penalized Logistic Regression. *Computational Statistics*, **40**, 3883-3909.
‡ PhD student
- [8] Zengin, Z.B., **Henderson, N.C.**, Park, J.J., ..., and T. Dorff (2025). Clinical implications of AR alterations in advanced prostate cancer: a multi-institutional collaboration. *Prostate Cancer and Prostatic Diseases*, **28**(2) 378-384.
- [9] Graham, L., **Henderson, N.C.**, ..., and M.T. Schweizer (2024). DNA Damaging Therapies in Patients with Prostate Cancer and Pathogenic Alterations in Homologous Recombination Repair Genes. *JCO Precision Oncology*, **8**, e2400014.
- [10] Bhattacharyya, R.[‡], **Henderson, N.C.**, and V. Baladandayuthapani (2024). Functional Integrative Bayesian Analysis of High-Dimensional Multiplatform Clinicogenomic Data. *Journal of the American Statistical Association*, **119**(548), 2533-2547.
‡ PhD student
- [11] DeLuca, E.K., Dalziel, K., Wittenberg, E., **Henderson, N.C.**, and L.A. Prosser (2024). Selecting PedsQL Items to Derive the PedsUtil Health State Classification System to Measure Utilities in Children. *Health and Quality of Life Outcomes*, **22**(53), 1-14.
- [12] **Henderson, N.C.**, Nam, K., and D. Feng (2024). Nonparametric Analysis of Delayed Treatment Effects using Single-Crossing Constraints. *Biometrical Journal*, **66**(2), 2200165.
- [13] Rutherford, D.V., Medley, S., **Henderson, N.C.**, ..., and D.L. Hertz (2023). Effects of CYP3A4 and CYP2C9 genotype on systemic anastrozole and fulvestrant concentrations in SWOG S0226. *Pharmacogenomics*, **24**(12), 665-673.
- [14] Schwartz, A.R., Xu, M., **Henderson, N.C.**, Dela Cruz, C., Pfau, D., Padmanabhan, V., Shikanov, A., and M.B. Moravek (2023). Testosterone Impairs In Vitro Fertilization Outcomes with Improvement Following Washout in a Mouse Model of Gender-Affirming Hormone Treatment. *American Journal of Obstetrics and Gynecology*, **229**(4), 419.e1 - 419.e10.
- [15] Hwang, C., **Henderson, N.C.**, Cackowski, F.C., ..., and P. Barata (2023). Biomarker-directed Therapy in Black and White Men with Metastatic Castration-resistant Prostate Cancer (mCRPC). *JAMA Network Open*, **6**(9), e2334208.
- [16] **Henderson, N.C.**, Varadhan, R., and T. A. Louis (2023). Improved Small Domain Estimation via Compromise Regression Weights. *Journal of the American Statistical Association*, **118**(544), 2793-2809.
- [17] Segal, J.B., Varadhan, R., Groenwold, R.H.H., **Henderson, N.C.**, ..., and M. Burcu (2023). Assessing Heterogeneity of Treatment Effect in Real-World Data. *Annals of Internal Medicine*, **176**(4), 536-544.
- [18] Tang, B., **Henderson, N.C.**, and R. Varadhan (2023). Accelerating Fixed-Point Algorithms in Statistics and Data Science: A State-of-Art Review. *Journal of Data Science*, **21**(1), 1-26.
- [19] Bhattacharyya, R.[‡], **Henderson, N.**, and V. Baladandayuthapani (2023). BaySyn: Bayesian Evidence Synthesis for Multi-system Multiomic Integration. In *PACIFIC SYMPOSIUM ON BIOCOMPUTING 2023: Proceedings of the Pacific Symposium*, 275 - 286.
‡ PhD student

- [20] Koshkin, V.S., **Henderson, N.C.**, James, M., ..., and A. Alva (2022). Efficacy of enfortumab vedotin in advanced urothelial cancer: analysis from the Urothelial Cancer Network to Investigate Therapeutic Experiences (UNITE) registry. *Cancer*, **128**(6), 1194-1205.
- [21] Nam, K., **Henderson, N.C.**^{*}, Rohan, P., and E. Russek-Cohen (2021). Penalized Logistic Regression Likelihood Ratio Test Analysis to Detect Signals of Adverse Events from Interactions in Postmarket Safety Surveillance. *Statistics in Biopharmaceutical Research*, **13**(4), 405-414.
^{*} co-first author
- [22] **Henderson, N.C.**, Louis, T.A., Rosner, G.L., and R. Varadhan (2020). Individualized Treatment Effects with Censored Data via Fully Nonparametric Bayesian Accelerated Failure Time Models. *Biostatistics*, **21**, 50-68.
- [23] **Henderson, N.C.** and R. Varadhan (2019). Damped Anderson Acceleration with Restarts and Monotonicity Control for Accelerating EM and EM-like Algorithms. *Journal of Computational and Graphical Statistics*, **28**(4), 834-846.
- [24] **Henderson, N.C.** and P.J. Rathouz (2018). AR(1) Latent Class Models for Longitudinal Count Data. *Statistics in Medicine*, **37**, 4441-4456.
- [25] **Henderson, N.C.** and R. Varadhan (2018). Bayesian Bivariate Subgroup Analysis for Risk-Benefit Evaluation. *Health Services and Outcomes Research Methodology*, **18**(4), 244-264.
- [26] Lesko, C.R., **Henderson, N.C.**, and R. Varadhan (2018). Considerations when Assessing Heterogeneity of Treatment Effect in Patient-Centered Outcomes Research. *Journal of Clinical Epidemiology*, **100**, 22-31.
- [27] Wang, C., Louis, T.A., **Henderson, N.C.**, Weiss, C.O., and R. Varadhan (2018). BEANZ: A Web-based Software for Bayesian Analysis of Heterogeneous Treatment Effect in Patient-Centered Outcomes Research. *Journal of Statistical Software*, **85**(7), 1-31.
- [28] **Henderson, N.C.**, Varadhan, R., and C. O. Weiss (2017). Cross-Design Synthesis for Extending the Applicability of Trial Evidence when Treatment Effect is Heterogeneous: Part II. Application and External Validation. *Communications in Statistics: Case Studies, Data Analysis and Applications*, **3**, 7-20.
- [29] Nam, K., **Henderson, N.C.**, Rohan, P., E.J. Woo, and E. Russek-Cohen (2017). Logistic Regression Likelihood Ratio Test Analysis for Detecting Signals of Vaccine Adverse Events in Vaccine Safety Surveillance. *Journal of Biopharmaceutical Statistics*, **27**, 990-1008.
- [30] **Henderson, N.C.**, Louis, T.A., Wang, C., and R. Varadhan (2016). Bayesian Analysis of Heterogeneous Treatment Effects for Patient-Centered Outcomes Research. *Health Services and Outcomes Research Methodology*, **16**(4), 213-233.
- [31] **Henderson, N.C.** and M.A. Newton (2016). Making the Cut: Improved Ranking and Selection for Large-Scale Inference. *Journal of the Royal Statistical Society, Series B*, **78**, 781-804.
- [32] Varadhan, R., **Henderson, N.C.**, and C. O. Weiss (2016). Cross-Design Synthesis for Extending the Applicability of Trial Evidence when Treatment Effect is Heterogeneous: Part I. Methodology. *Communications in Statistics: Case Studies, Data Analysis and Applications*, **2**, 112-126.
- [33] Costello J.C., Heiser L.M., Georgii E., Gnen M., Menden M.P., Wang N.J., Bansal M., Ammad-uddin M., Hintsanen P., Khan S.A., Mpindi J.P., NCI DREAM Community (including **Henderson, N.C.**), Kallioniemi O., Honkela A., Aittokallio T., Wennerberg K., Collins J.J., Gallahan C.D., Singer D., Saez-Rodriguez J., Kaski S., Gray J.W., and G. Stolovitzky (2014). A Community Effort to Assess and Improve Drug Sensitivity Prediction Algorithms. *Nature Biotechnology*, **32**(12), 1202-1212.
- [34] McDaniel, L.S., **Henderson, N.C.**, and P.J. Rathouz (2013). Fast Pure R Implementation of GEE: Application of the Matrix Package. *The R Journal*, **5**(1), 181-188.

SUBMITTED
PAPERS

- [1] **Henderson, N.C.** and N. Hartman. Targeted Parameter Estimation for Robust Empirical Bayes Ranking, *Preprint available at* <https://arxiv.org/abs/2511.16530>
- [2] **Henderson, N.C.** and R. Varadhan. Accelerating Proximal Gradient-type Algorithms using Damped Anderson Acceleration with Restarts and Nesterov Initialization. *Preprint available at* <https://arxiv.org/abs/2508.12177>.
- [3] **N.C. Henderson.** Robust Updating of a Risk Prediction Model through Integrating External Ranking Information. *Preprint available at* <https://arxiv.org/abs/2603.10389>
- [4] Hadley, A., Buning, G., **Henderson, N.C.**, . . . , Merajver, S.D., and E.F. Cobain. Cancer Risk Management in Unaffected Carriers with Hereditary Breast and Ovarian Cancer Syndromes.
- [5] Cani, A.K., Dolce, E.M., Darga, E.P., Hu, K., Liu, C.-J., Robinson, D., Wu, Y.-M., Costanza Paoletti 1,2 , Hanauer, D.A., Luker, G.D., Tomlins, S.A., Udager, A.M., **Henderson, N.C.**, Thomas, D.G., Rae, J.M., Chinnaiyan, A.M., Cobain, E.F., and D.F. Hayes. Serial liquid biopsy monitoring of metastatic lobular breast cancer to detect clinically-relevant heterogeneity and evolution of precision/immuno-oncology biomarkers of therapeutic importance.
- [6] Thapa, B., **Henderson, N.C.**, Pierro, M., . . . , Armstrong, A.J., Schweizer, M.T., and D. Kilari. Impact of PTEN alterations on clinical outcomes in patients with metastatic castration-sensitive prostate cancer.
- [7] Dolce, E., **Henderson, N.C.**, Cani, A., Cobain, E., Costanza, P., Thomas, D., Wilson, D., Darga, E., Rae, J.M., and D.F. Hayes. Circulating Tumor Cell and Platelet PD-L1 Expression in Patients Receiving Immune Checkpoint Inhibition Therapy.
- [8] Ashouri, M.[†] and **N.C. Henderson.** Forecasting Network Flow using Reconciliation and Flow Aggregation.
[†] Postdoctoral fellow.

RESEARCH
INTERESTS

Precision medicine, empirical Bayes methods, Bayesian nonparametrics, Bayesian machine learning methods, computational statistics

STUDENT
MENTORING

PhD students/Postdocs

- Mahsa Ashouri (2022 - 2024, Postdoc, current Assistant Professor at Miami University)
- Rupam Bhattacharyya (PhD student, graduated 2023, co-advisor)

TEACHING
EXPERIENCE

University of Michigan

August 2019 - present

Winter 2020 and 2026 - Biostatistics 685/Statistics 560 (Elements of Nonparametric Statistics).
Publicly available course notes: <https://nchenderson.github.io/elements-nonpar-stat/>

Fall 2020, 2021, 2022, 2023, 2024, 2025 - Biostatistics 607 (Basic Computing for Data Analytics).
Publicly available course notes: <https://nchenderson.github.io/IntroductiontoR/>

Winter 2021, 2022, 2023, 2024, 2025, 2026 - Biostatistics 629 (Case Studies in Health Big Data).
Publicly available course notes: <https://nchenderson.github.io/HDS629notes/>

Johns Hopkins University

August 2015 - June 2019

Fall 2017 - The Institute for Clinical and Translational Research:
Statistical Analysis of Heterogeneous Treatment Effects: Methods and Software.

University of Wisconsin - Madison

August 2010 - June 2015

Teaching Assistant

Spring 2015 - Teaching Assistant for Statistics 311 (Introduction to Mathematical Statistics I)

Spring 2015 - Teaching Assistant for Statistics 771 (Statistical Computing)

Fall 2014 - Teaching Assistant for Statistics 641 (Statistical Methods for Clinical Trials)

Summer Institute for Biostatistics (SIBS)

Assistant Instructor during the summers of 2011, 2012, and 2013

University of Maryland - College Park

August 2009 - May 2010

Teaching Assistant

Spring 2010 - Teaching Assistant for MATH 246 (Differential Equations)

Fall 2009 - Teaching Assistant for MATH 141 (Calculus II)

SOFTWARE

ropper: An R package that performs robust estimation of a ranking of cluster-specific means after performing a covariate adjustment. Available at <https://cran.r-project.org/web/packages/ropper/index.html>

rasper: An R package that performs penalized regression to estimate a risk model while incorporating prior risk rankings. Available at <https://github.com/nchenderson/rasper>

rmstbart: An R package that implements a generalized Bayesian Additive Regression Trees (BART) method for performing inference on a function which relates the restricted mean survival times with a collection of individual-level covariates. Available at <https://github.com/nchenderson/rmstbart>.

daarem: An R package that implements the DAAREM method for accelerating the convergence of slow, monotone sequences from smooth, fixed-point iterations such as the EM algorithm. Available at <https://cran.r-project.org/web/packages/daarem/index.html>. (41,954 package downloads on CRAN as of May 2026).

AFTrees: An R package for fitting accelerated failure time models with an additive tree model for the regression function and a nonparametric Dirichlet process mixture model for the residual distribution. Available at <https://github.com/nchenderson/AFTrees>

pxlogistic: An R package that implements a robust parameter-expanded “ECME algorithm” for estimating regression coefficients in logistic regression and penalized logistic regression. Available at <https://github.com/nchenderson/pxlogistic>

DelayedSurvFit: An R package for fitting nonparametric survival models when two survival curves are restricted to have one of several “delayed treatment effect” profiles. Available at <https://github.com/nchenderson/DelayedSurvFit>

rvalues: An R package to compute r-values for ranking in high-dimensional settings (joint with Michael A. Newton). Available at <http://cran.r-project.org/web/packages/rvalues/index.html>. (38,020 package downloads on CRAN as of May 2026)

geeM: An R package for fitting generalized estimating equations with user-specified link and variance functions (joint with Lee McDaniel). Available at <http://cran.r-project.org/web/packages/geeM/index.html>. (193,410 package downloads on CRAN as of May 2026)

inarmix: An R package for fitting mixture models appropriate for longitudinal count data (joint with Paul Rathouz). Available at <http://cran.r-project.org/web/packages/inarmix/index.html>

SERVICE

Department Service:

- Candidacy Committee: 2022-2023, 2023-2024, 2025-2026
- Curriculum Committee: 2019-2020, 2025-2026

- Awards Committee: 2023-2024, 2024-2025
- Computing Committee: 2019-2020, 2020-2021, 2021-2022, 2022-2023, 2023-2024, 2024-2025
- Health Data Science Committee: 2020-2021, 2021-2022
- MSSISS Representative: 2024-2025
- Organized Informal Collaborative Faculty Research Meeting: 2022-2023

Other Service:

- *Member of the Scientific Program Committee:* 2026 STAT4Onc Annual Symposium, 2025 - 2026.
- *Grant Reviewer:* National Science Foundation, Statistics Program, February 2024.
- *Committee Member:* PCORI Patient-Centered Outcomes Data Repository Independent Review Committee, 2022-2026.
- *Member of:* Review committee for breast cancer tissue/databank resource at Michigan Medicine, 2022-2026.
- *Member of:* PROMISE executive committee, 2024-2026.
- *Member of:* ASA Statistical Computing Section. (judge: student paper competition 2026)
- *Member of:* WNAR 2026 student competition committee. (student paper and presentation awards)

EXTERNAL
INVITED
PRESENTATIONS

- [1] *Ranking-based Data Integration for Robust Outcomes Prediction and Biomarker Detection.* Statistical Learning and Data Science Conference, November 2026 (upcoming), New York City, NY, USA.
- [2] *Accelerating Proximal Gradient-type Algorithms using Damped Anderson Acceleration with Restarts and Nesterov Initialization.* Joint Statistical Meetings, August 2026 (upcoming), Boston, MA, USA.
- [3] *Ranking-based Data Integration for Robust Outcomes Prediction and Biomarker Detection.* Sixth International Workshop on Statistical Analyses of Multi-Outcome Data, June 2026, Bordeaux, France.
- [4] *Robust Updating of a Risk Prediction Model through Integrating External Ranking Information.* Western North American Region (WNAR) Meeting, June 2026, Pullman, WA, USA.
- [5] *Ranking-based Data Integration for Robust Outcomes Prediction and Biomarker Detection.* Johns Hopkins University, Sidney Kimmel Comprehensive Cancer Center, Research Program in Quantitative Sciences Seminar, May 2026, Baltimore, MD, USA.
- [6] *Generalized Bayesian Additive Regression Trees for Dynamic Inference on the Restricted Residual Life.* Western North American Region (WNAR) Meeting, June 2025, Whistler, BC, Canada.
- [7] *Evaluating and Testing for Actionable Treatment Effect Heterogeneity,* Department of Statistics, Miami University (Ohio), April 2025, Oxford, OH, USA.
- [8] *Improved Small Domain Estimation via Compromise Regression Weights,* SAE 2022: Small Area Estimation, Surveys and Data Science, May 2022, College Park, MD, USA.
- [9] *Bayesian Bivariate Subgroup Analysis for Risk-Benefit Evaluation,* Joint Statistical Meetings, August 2020, Remote Conference.
- [10] *Survival Prediction and Model Assessment via BART Model Averaging,* Joint Research Conference on Statistics in Quality, Industry, and Technology, June 2018, Santa Fe, NM, USA.
- [11] *Bayesian Additive Regression Trees (BART) for Survival Analysis.* Merck & Co., Inc., March 2017, Upper Gwynedd, PA, USA.
- [12] *Bayesian Nonparametric Accelerated Failure Time Models for Analyzing Heterogeneous Treatment Effects.* ASA Biopharmaceutical Section Regulatory-Industry Statistics Workshop, September 2016, Washington, D.C., USA.

- [13] *Optimal Ranking and Selection for Large-Scale Inference: Threshold Families and the R-value*. Department of Statistics, University of Illinois at Urbana-Champaign, February 2015, Champaign, IL, USA.

INTERNAL
INVITED
PRESENTATIONS

- [1] *Flexible and Robust Integration of Real-World Evidence*. Center for Data-Driven Drug Development and Treatment Assessment Fall Ideation Meeting, September 2025, Ann Arbor, MI, USA.
- [2] *Generalized Bayesian Additive Regression Trees for Restricted Mean Survival Time Prediction*. Michigan Statistics Student Seminar, October 2023, Ann Arbor, MI, USA.

WORKSHOPS
AND OTHER
SELECTED
PRESENTATIONS

- [1] *Workshop: Analysis of Heterogeneous Treatment Effects*, International Conference on Health Policy Statistics, January 2025, San Diego, CA, USA.
- [2] *Workshop: Analysis of Heterogeneous Treatment Effects*, International Conference on Health Policy Statistics, January 2020, San Diego, CA, USA.
- [3] *Maximum Entropy Distributions for Bridging Trial and Observational Studies*, ENAR, March 2024, Baltimore, MD, USA.
- [4] *Damped Anderson Acceleration with Restarts and Monotonicity Control for Accelerating EM and EM-like Algorithms*, Joint Statistical Meetings, August 2019, Denver, CO, USA.
- [5] *Bayesian Nonparametric Accelerated Failure Time Models for Analyzing Heterogeneous Treatment Effects*. Joint Statistical Meetings, August 2018, Vancouver, BC, Canada.
- [6] *Individualized Treatment Effects with Censored Data via Fully Nonparametric Bayesian Accelerated Failure Time Models*, International Conference on Health Policy Statistics, January 2018, Charleston, SC, USA.
- [7] *Survival Prediction in Early-Stage Lung Cancer via Bayesian Model Averaging of Nonparametric Accelerated Failure Time Models*. Symposium on Advances in Genomics, Epidemiology and Statistics, May 2017, Philadelphia, PA, USA.
- [8] *Fast Computation of Smooth Nonparametric Mixing Distributions via Kernel Mixtures*. Eastern North American Region (ENAR) Meeting, March 2017, Washington, D.C., USA.
- [9] *Bayesian accelerated failure-time models for exploring heterogeneous treatment effects and individualized treatment decisions*. Eastern North American Region (ENAR) Meeting, March 2016, Austin, TX, USA.
- [10] *Putting Lots of Things in Order: R-values*. Center for Predictive Computational Phenotyping, University of Wisconsin - Madison, June 2015, Madison, WI, USA.
- [11] *Optimal Ranking and Selection for Large-Scale Inference: Threshold Families and the R-value*. Eastern North American Region (ENAR) Meeting, March 2015, Miami, FL, USA.

EDITORIAL SERVICE *Associate Editor*: Journal of Biopharmaceutical Statistics (currently serving)

Selection of journals reviewed for: Annals of Applied Statistics, Bayesian Analysis, Biometrics, Computational Statistics and Data Analysis, Health Services and Outcomes Research Methodology, International Journal of Epidemiology, JAMA Oncology, Journal of the American Statistical Association, Journal of Biopharmaceutical Statistics, Journal of Computational and Graphical Statistics, Journal of Machine Learning Research, Journal of the Royal Statistical Society Series B, JCO Precision Oncology, Observational Studies, SIAM Journal on Optimization, Pharmaceutical Statistics, Statistical Methods in Medical Research, Statistics and Its Interface, Statistics in Medicine, The R Journal.

SELECTED HONORS AND AWARDS 2021 ASA Biopharmaceutical Section Regulatory-Industry Workshop 1st prize Best Poster Award for the poster: “Nonparametric Analysis of Delayed Treatment Effects using Single-Crossing Constraints”

JSM Travel Award Winner - Biometrics Section, July 2018

JSM Poster Competition Award winner - Biopharmaceutical Section, July 2018. 2nd Place for “Survival Prediction in Early-Stage Lung Cancer via Bayesian Model Averaging of Nonparametric Accelerated Failure Time Models”.

ASA Mental Health Statistics Section Student Paper Award Winner, March 2015.

National Science Foundation (NSF) award to attend the conference, “Frontiers of Hierarchical Modeling in Observational Studies, Complex Surveys and Big Data”, May 2014.

University of Florida Winter Workshop: Young Researcher Travel Award, January 2014.

Phi Beta Kappa, 2007

National Merit Finalist, 2003

COMPUTER SKILLS R, Rcpp/C++, Python, Matlab, L^AT_EX