

Amy H. Herring

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RESEARCH INTERESTS	Longitudinal and multivariate data, hierarchical models, latent variables, Bayesian methods, missing and mismeasured data, reproductive epidemiology, environmental health	
EDUCATION	Harvard University , Cambridge, Massachusetts, USA Sc.D., Biostatistics, March 2000 Thesis Topic: Missing Covariates in Survival Analysis Advisor: Professor Joseph G. Ibrahim University of Mississippi , Oxford, Mississippi, USA B.S., Mathematics, <i>summa cum laude</i> , May 1995 B.A., English, <i>summa cum laude</i> , May 1995	
PROFESSIONAL EXPERIENCE	Department of Statistical Science & Global Health Institute Duke University <i>Sara & Charles Ayres Distinguished Professor</i> 2018-present <i>Professor</i> 2017-present Duke Forge Health Data Science Center <i>Co-Director</i> 2017-present Department of Biostatistics Gillings School of Global Public Health The University of North Carolina at Chapel Hill <i>Carol Remmer Angle Distinguished Professor of Children's Environmental Health</i> 2015-2017 <i>Associate Chair</i> 2012-2017 <i>Professor, Associate Professor, Assistant Professor</i> 2000-2017 Carolina Population Center The University of North Carolina at Chapel Hill <i>Fellow</i> 2006-2017	

HONORS & AWARDS

Janet L. Norwood Award for Outstanding Achievement by a Woman in the Statistical Sciences, 2019

Lagakos Distinguished Alumni Award, Harvard University Department of Biostatistics, 2018

Elected Fellow, International Statistical Institute, 2017

Mortimer Spiegelman Award for outstanding public health statistician under age 40, American Public Health Association, 2012

Gertrude M. Cox Award for outstanding contributions to applied statistics, Washington Statistical Society & Research Triangle Institute, 2012

Teaching Innovation Award for Biostatistics, UNC Gillings School of Global Public Health, 2012, 2013, and 2016

Coauthor of paper winning “Best Paper in *Biometrics* Award,” 2012

Coauthor of paper winning “Best Paper in *Biometrics* Award,” 2011

Top 5% Reviewer, *British Journal of Obstetrics and Gynecology*, 2010, 2011, 2012, 2013, 2014, 2015, 2016, and 2017

Elected Fellow, American Statistical Association, 2010

McGavran Award for Excellence in Teaching, UNC Gillings School of Global Public Health, 2010

Top 12 Reviewer, *Environmental Health Perspectives*, 2009

Outstanding Young Alumna of the Year, University of Mississippi, 2005

Gertrude Cox Scholarship Recipient, ASA Caucus for Women in Statistics, 1995

Phi Kappa Phi Graduate Fellowship Recipient, 1995

OΔK Leadership Honorary Society Graduate Fellowship Recipient, 1995

Marshal, College of Liberal Arts, University of Mississippi, 1995

Taylor Medalist (Highest academic honor conferred by University of Mississippi), 1995

Inducted into University of Mississippi Hall of Fame, 1995

National Merit Scholar, 1991

Citations (from Google Scholar)

h-index: 66

Statistical journals

*Indicates student author

- 276 Davalos, A.D.* , **Herring, A.H.**, and Olshan, A.F. “Joint modeling of mixed scale variables using modularized tensor factorization,” revision invited (2020).
- 275 Jin, B.* , Dunson, D.B., Rager, J.E., Reif, D., Engel, S.M., and **Herring, A.H.** “Bayesian matrix completion for hypothesis testing,” submitted (2020).
- 274 Moran, K.* , Dunson, D.B., Wheeler, M.W., and **Herring, A.H.** “Bayesian joint modeling of chemical structure and dose response curves,” *Annals of Applied Statistics*, minor revision requested (2020).
- 273 Moran, K.* , Turner, E.L., Dunson, D.B., and **Herring, A.H.** “Bayesian hierarchical regression models to infer cause of death from verbal autopsy data,” *Journal of the Royal Statistical Society, Series C*, to appear (2020).
- 272 Paganin, S.* , **Herring, A.H.**, Olshan, A.F., and Dunson, D.B. “Centered Partition Process: Robust Priors for Clustering,” *Bayesian Analysis*, to appear (2020).
- 271 Rigon, T., **Herring, A.H.**, and Dunson, D.B. “A generalized Bayes framework for probabilistic clustering,” submitted (2020).
- 270 Roy, A.* , Lavine, I.* , **Herring, A.H.**, and Dunson, D.B. “Perturbed factor analysis: Improving generalizability across studies,” *Annals of Applied Statistics*, minor revision invited (2020).
- 269 Stephenson, B.J.K.* , **Herring, A.H.**, and Olshan, A.F. “Supervised Robust Profile Clustering,” submitted (2020).
- 268 Butera, N.* , Li, S.* , Evenson, K.R., Di, C., Buchner, D.M., LaMonte, M.J., LaCroix, A.Z., and **Herring, A.H.** “Hot Deck Multiple Imputation for Handling Missing Accelerometer Data,” *Statistics in Biosciences*, 11(2): 422-448 <https://doi.org/10.1007/s12561-018-9225-4> (2019).
- 267 Kuniyama, T.* , Halpern, C.T. and **Herring, A.H.** “Nonparametric Bayes Models for Mixed-Scale Longitudinal Surveys,” *JRSS-C*, 68(4):1091-1109 (2019).

- 266 Stephenson, B.J.K.*, Olshan, A.O., and **Herring, A.H.** “Robust Clustering with Subpopulation-Specific Deviations,” *Journal of the American Statistical Association*, <https://doi.org/10.1080/01621459.2019.1611583> (2019).
- 265 Benecha, H.K.*, Preisser, J.S., **Herring, A.H.**, and Das, K. “Marginalized Zero-Inflated Poisson Models with Missing Covariates,” *Biometrical Journal* 60(4):845-858 (2018).
- 264 Wheeler, M.*, Dunson, D.B., and **Herring, A.H.** “Bayesian Local Extrema Splines,” *Biometrika* 104(4):939-952 (2017).
- 263 Daza, E.J.*, Hudgens, M.G., and **Herring, A.H.** “Estimating Inverse-Probability Weights for Longitudinal Data with Dropout or Truncation: The `xtrccipw` Command,” *The Stata Journal*, 17(2):253-278 (2017).
- 262 Berchuck*, S., Warren, J.L., **Herring, A.H.**, Evenson, K.R., Moore, K.A.B., Ranchod, Y.K., and Diez-Roux, A.V. “Spatially Modelling the Association Between Access to Recreational Facilities and Exercise: The Multi-Ethnic Study of Atherosclerosis.” *Journal of the Royal Statistical Society, Series A*, 179(1):293-310 (2016).
- 261 Kuniyama, T.*, **Herring, A.H.**, Halpern, C.T., and Dunson, D.B. “Nonparametric Bayes Modeling with Sample Survey Weights,” *Statistics and Probability Letters*, 113:41-48 (2016).
- 260 Warren, J.L., Stingone, J.A., **Herring, A.H.**, Luben, T.J., Fuentes, M., Aylsworth, A.S., Langlois, P.H., Botto, L., Correa, A., Olshan, A.F., and the National Birth Defects Prevention Study. “Bayesian Multinomial Probit Modeling of Daily Windows of Susceptibility for Maternal PM_{2.5} Exposure and Congenital Heart Defects.” *Statistics in Medicine*, 35(16):2786-2801 (2016).
- 259 Zhou, J.*, **Herring, A.H.**, Bhattacharya, A., Olshan, A.F., Dunson, D.B., and The National Birth Defects Prevention Study. “Nonparametric Bayes Modeling for Case Control Studies.” *Biometrics*, 72(1):184-192 (2016).
- 258 Carlin, B.P. and **Herring, A.H.** “A Conversation with Alan Gelfand.” *Statistical Science*, 130(3):413-422 (2015).
- 257 Long*, D.L., Preisser, J.S., **Herring, A.H.**, and Golin, C.B. “A Marginalized Zero-inflated Poisson Regression Model with Random Effects.” *Journal of the Royal Statistical Society-Series C (Applied Statistics)*, 64(5):815-830 (2015).
- 256 Smith* L.B., Reich, B.J., **Herring, A.H.**, Langlois, P.H., and Fuentes, M. “Multilevel Quantile Function Modeling with Application to Birth Outcomes.” *Biometrics*, 71(2):508-519 (2015).

- 255 Zhou*, J., Bhattacharya, A., **Herring, A.H.**, and Dunson, D.B. “Bayesian Factorizations of Big Sparse Tensors.” *Journal of the American Statistical Association—Theory and Methods*, 110(512):1562-1576 (2015).
- 254 Long*, D.L., Preisser, J.S., **Herring, A.H.**, and Golin, C.E. “A Marginalized Zero-Inflated Poisson Regression Model with Overall Exposure Effects.” *Statistics in Medicine*, 33(29):5151-5165 (2014).
- 253 Wheeler*, M.W., Dunson, D.B., **Herring, A.H.**, Pandalai, S.P., and Baker, B.A. “Mechanistic Hierarchical Gaussian Processes.” *Journal of the American Statistical Association—Applications and Case Studies*, 109(507):894-904 (2014).
- 252 Zhao*, Y., **Herring, A.H.**, Zhou, H., Ali, M.W., and Koch, G.G. “A Multiple Imputation Method for Sensitivity Analyses of Time-to-Event Data with Possibly Informative Censoring.” *Journal of Biopharmaceutical Statistics*, 24(2):229-253 (2014).
- 251 Sotres-Alvarez*, D., **Herring, A.H.**, and Siega-Riz, A.M. “Latent Transition Models to Study Women’s Changing of Dietary Patterns from Pregnancy to 1 Year Postpartum.” *American Journal of Epidemiology*, 177(8):852-861 (2013).
- 250 Warren*, J., Fuentes, M., **Herring, A.**, and Langlois, P. “Bayesian Spatial-Temporal Model for Cardiac Congenital Anomalies and Ambient Air Pollution Risk.” *Environmetrics*, 23(8):673-684 (2012).
- 249 Warren*, J., Fuentes, M., **Herring, A.**, and Langlois, P. “Spatial-Temporal Modeling of the Association between Air Pollution Exposure and Preterm Birth: Identifying Critical Windows of Exposure.” *Biometrics*, 68(4):1157-1167 (2012). (Winner of 2012 “Best Paper in *Biometrics* Award” presented at 2014 IBC in Florence, Italy)
- 248 Ghosh, J., **Herring, A.H.**, and Siega-Riz, A.M. “Bayesian Variable Selection for Latent Class Models.” *Biometrics*, 67(3):917-925 (2011).
- 247 Saville*, B.R., **Herring, A.H.**, Kaufman, J.S., and Savitz, D.A. “Testing Variance Components in Multilevel Linear Models Using Approximate Bayes Factors.” *Journal of the Royal Statistical Society, Series A*, 174(3):785-804 (2011).
- 246 Zhao*, Y., Zeng, D., **Herring, A.H.**, Ising, A., Waller, A., Richardson, D., and Kosorok, M. “Detecting Disease Outbreaks Using Local Spatiotemporal Methods.” *Biometrics*, 67(4):1508-1517 (2011). (Winner of “Best Paper in *Biometrics* Award” presented at 2012 IBC in Kobe, Japan)

- 245 Reich, B.J., Fuentes, M., **Herring, A.H.**, and Evenson, K.R. “Bayesian Variable Selection for Multivariate Spatially-Varying Coefficients: Application to Physical Activity in Pregnancy.” *Biometrics*, 66(3):772-782 (2010).
- 244 **Herring, A.H.** “Nonparametric Bayes Shrinkage for Assessing Exposures to Mixtures Subject to a Limit of Detection.” *Epidemiology*, 21(4):S71-S76 (2010).
- 243 Saville*, B.R., **Herring, A.H.**, and Koch, G.G. “A Robust Method for Comparing Two Treatments in a Confirmatory Clinical Trial Via Multivariate Time-to-Event Methods that Jointly Incorporate Information from Longitudinal and Time-to-Event Data.” *Statistics in Medicine*, 29(1):75-85 (2010).
- 242 MacLehose, R.F., Olshan, A.F., **Herring, A.H.**, Honein, M.A., Shaw, G.M., Romitti, P.A. and the National Birth Defects Prevention Study. “Bayesian Methods for Misclassification Correction: An Example from Birth Defects Epidemiology.” *Epidemiology*, 20(1):27-35 (2009).
- 241 Saville*, B.R., and **Herring, A.H.** ”Testing Random Effects in the Linear Mixed Model Using Approximate Bayes Factors.” *Biometrics*, 65:369-376 (2009).
- 240 Slaughter*, J.C., **Herring, A.H.**, and Thorp, J.M. “A Bayesian Latent Variable Mixture Model for Fetal Growth.” *Biometrics*, 65(4):1233-1242 (2009).
- 239 Dunson, D.B., **Herring, A.H.**, and Engel, S.M. “Bayesian Selection and Clustering of Polymorphisms in Functionally-Related Genes.” *Journal of the American Statistical Association—Applications and Case Studies*, 103(482):534-546 (2008).
- 238 Dunson, D.B., **Herring, A.H.**, and Siega-Riz, A.M. “Bayesian Inferences on Changes in Response Densities with Predictor Clusters.” *Journal of the American Statistical Association—Applications and Case Studies*, 103(484):1508-1517 (2008).
- 237 Slaughter*, J.C., **Herring, A.H.**, and Hartmann, K.H. “Bayesian Modeling of Embryonic Growth Using Latent Variables.” *Biostatistics*, 9(2):373-89 (2008).
- 236 **Herring, A.H.**, and Yang*, J. “Bayesian Modeling of Multiple Episode Occurrence and Severity with a Terminating Event.” *Biometrics*, 63:381-388 (2007).

- 235 Johnson, B., **Herring, A.H.**, Ibrahim, J.G., and Siega-Riz, A.M. “Structured Measurement Error in Nutritional Epidemiology: Applications in the Pregnancy, Infection, and Nutrition (PIN) Study.” *Journal of the American Statistical Association—Applications and Case Studies*, 102(479):856-866 (2007).
- 234 MacLehose, R.F.*, Dunson, D.B., **Herring, A.H.**, and Hoppin, J.A. “Bayesian Methods for Highly Correlated Exposure Data.” *Epidemiology*, 18(2):199-207 (2007).
- 233 Savitz, D.A., Dole, N., and **Herring, A.H.** “Methodologic Issues in the Design and Analysis of Studies of Pregnancy Outcome.” *Statistical Methods in Medical Research*, 15:93-102 (2006).
- 232 Dunson, D.B., and **Herring, A.H.** “Bayesian Latent Variable Models for Mixed Discrete Outcomes.” *Biostatistics*, 6(1):11-25 (2005).
- 231 Dunson, D.B., and **Herring, A.H.** “Bayesian Model Selection and Averaging in Additive and Proportional Hazards Models.” *Lifetime Data Analysis*, 11(2):213-232 (2005).
- 230 Ibrahim, J.G., Chen, M.H., Lipsitz, S.R., and **Herring, A.H.** “Missing Data Methods for Generalized Linear Models: A Comparative Review.” *Journal of the American Statistical Association*, 100(469):332-346 (2005).
- 229 **Herring, A.H.**, Ibrahim, J.G., and Lipsitz, S.R. “Nonignorable Missing Covariate Data in Survival Analysis: A Case Study of an International Breast Cancer Study Group Trial.” *Journal of the Royal Statistical Society, Series C (Applied Statistics)*, 53(2):293-310 (2004).
- 228 **Herring, A.H.**, Dunson, D.B., and Dole, N. “Modeling the Effects of a Bi-Directional Latent Predictor from Multivariate Questionnaire Data.” *Biometrics*, 60(4):926-935 (2004).
- 227 Dunson, D.B., and **Herring, A.H.** “Hypothesis Testing in the Cox Model for Order Restricted Alternatives.” *Biometrics*, 59(4):918-925 (2003).
- 226 **Herring, A.H.**, and Ibrahim, J.G. “Maximum Likelihood Estimation in Random Effects Cure Rate Models with Nonignorable Missing Covariates.” *Biostatistics*, 3(3):387-405 (2002).
- 225 **Herring, A.H.**, Ibrahim, J.G., and Lipsitz, S.R. “Frailty Models with Missing Covariates.” *Biometrics*, 58(1):98-109 (2002).
- 224 **Herring, A.H.**, and Ibrahim, J.G. “Likelihood-Based Methods for Missing Covariates in the Cox Proportional Hazards Model.” *Journal*

of the American Statistical Association—Theory and Methods, 96:292-302 (2001).

Public health and medicine

- 223 Cordero*, C., Schieve, L.A., Croen, L.A., Engel, S.M., Siega-Riz, A.M., **Herring, A.H.**, Rowley, D., and Halpern, C.T. “Neonatal Jaundice in Association with Autism Spectrum Disorder and Developmental Disorder.” *Journal of Perinatology* 40(2):219-225.
- 222 Stephenson*, B.J.K., Sotres-Alvarez, D., Siega-Riz, A.M., Mossavar-Rahmani, Y., Daviglius, M.L., Van Horn, L., **Herring, A.H.**, and Cai, J. “Empirically Derived Dietary Patterns Using Robust Profile Clustering in the Hispanic Community Health Study/Study of Latinos.” *Journal of Nutrition*, to appear (2020).
- 221 Tucker, C.M., Berrien, K., Menard, K.K., **Herring, A.H.**, Rowley, D., and Halpern, C.T. “Preterm Birth and Receipt of Postpartum Contraception Among Women with Medicaid in North Carolina,” *Maternal and Child Health Journal*, <https://doi.org/10.1007/s10995-020-02889-4> (2020).
- 220 Voynow, J.A., Fisher, K., Sunday, M.E., Cotten, C.M., Hamvas, A., Hendricks-Munoz, K.D., Poindexter, B.B., Pryhuber, G.S., Ren, C.L., Ryan, R.M., Sharp, J.E., Young, S.P., Zhang, H., Greenberg, R.G., **Herring, A.H.**, and Davis, S.D. “Urine gastrin releasing peptide in the first week correlates with BPD and post-prematurity respiratory disease,” *Pediatric Pulmonology*, 55(4): 899-908 (2020).
- 219 Alman, B.L., Stingone, J.A., Yazdy, M., Botto, L.D., Desrosiers, T.A., Pruitt, S., **Herring, A.H.**, Langlois, P.H., Nembhard, W.N., Shaw, G.M., Olshan, A.F., and Luben, T.J. “Associations between PM2.5 and risk of preterm birth among liveborn infants without a birth defect,” *Annals of Epidemiology*, 39:46-53 (2019).
- 218 Cordero, C., Windham, G.C., Schieve, L.A., Fallin, M.D., Croen, L.A., Siega-Riz, A.M., Engel, S.M., **Herring, A.H.**, Stuebe, A.M., Vladutiu, C.J., and Daniels, J.D. “Maternal Diabetes and Hypertensive Disorders in Association with Autism Spectrum Disorder,” *Autism Research*, 12:967-975, <https://doi.org/10.1002/aur.2105> (2019).
- 217 Hughes, S.C., Hogue, C.J., Clark, M.A., Graber, J.E., Eaker, E.D., and **Herring, A.H.** “Screening for Pregnancy Status in a Population-Based Sample: Characteristics Associated with Item Nonresponse,” *Maternal and Child Health Journal*, 23(3):316-324 (2019).

- 216 Reinhartsen, D.B., Tapia, A.L., Watson, L., Crais, E., Bradley, C., Fairchild, J., **Herring, A.H.**, and Daniels, J.L. “Expressive Dominant Versus Receptive Dominant Language Patterns in Young Children: Findings from the Study to Explore Early Development,” *Journal of Autism and Developmental Disorders*, <https://doi.org/10.1007/s10803-019-03999-x> (2019).
- 215 Engel, S.M., Villanger, G.D., Nethery, R.C., Thomsen, C., Sakhi, A.K., Drover, S., Hoppin, J., Zeiner, P., Knudsen, G.P., Reichborn-Kjennerud, T., **Herring, A.H.**, and Aase, H. “Prenatal Phthalates, Maternal Thyroid Function, and Risk of Attention-Deficit Hyperactivity Disorder in the Norwegian Mother and Child Cohort.” *Environmental Health Perspectives*, 126(5) (2018).
- 214 Furlong, M.A., **Herring, A.H.**, Goldman, B.D., Daniels, J.L., Wolff, M.S., Engel, L.S., and Engel, S.M. “Early Life Characteristics and Neurodevelopmental Phenotypes in the Mount Sinai Children’s Environmental Health Center.” *Child Psychiatry and Human Development* 49(4):534-550 (2018).
- 213 Grace, M.R., Vladutiu, C.J., Nethery, R.C., Siega-Riz, A.M., Manuck, T.A., **Herring, A.H.**, Savitz, D.A., and Thorp, J.M. “Lipoprotein particle concentration measured by nuclear magnetic resonance spectroscopy is associated with gestational age at delivery: a prospective cohort study.” *British Journal of Obstetrics and Gynecology* 125(7):895-903 (2018).
- 212 Hoffman, K., Stapleton, H.M., Lorenzo, A., Butt, C.M., Adair, L., **Herring, A.H.**, Daniels, J.L. “Prenatal Exposure to Organophosphates and Associations with Birthweight and Gestational Length.” *Environment International*, 116:248-254 (2018).
- 211 Laine, J., Ilievski, V., Richardson, D.B., **Herring, A.H.**, Styblo, M., Rubio-Andrade, M., Garcia-Vargas, G., Gamble, M.V., and Fry, R.C. “Maternal One Carbon Metabolism and Arsenic Methylation in a Pregnancy Cohort in Mexico.” *Journal of Exposure Science and Environmental Epidemiology* 28(5):505-514 (2018).
- 210 Porter, A.K., Wen, F., **Herring, A.H.**, Rodriguez, D.A., Messer, L.C., Laraia, B.A., and Evenson, K.R. “Reliability and One-Year Stability of the PIN3 Neighborhood Environmental Audit in Urban and Rural Neighborhoods.” *Journal of Urban Health*, 95(3):431-439 (2018).
- 209 Taylor, K.W., Troester, M.A., **Herring, A.H.**, Engel, L.S., Nichols, H.B., Sandler, D.P., and Baird, D.D. “Associations Between Personal Care Product Use Patterns and Breast Cancer Risk Among White and Black Women in the Sister Study,” *Environmental Health Perspectives* 126(2), (2018).

- 208 Wilkinson, A.L., Fleming, P.J., Halpern, C.T., **Herring, A.H.**, and Harris, K.M. “Adherence to Gender-Typical Behavior and High-Frequency Substance Use From Adolescence Into Young Adulthood.” *Psychology of Men and Masculinity*, 19(1):145-155 (2018).
- 207 Buchner, D.M., Rillamas-Sun, E., Di, C., LaMonte, M.J., Marshall, S.W., Hunt, J., Zhang, Yu., Rosenberg, D.E., Lee, I.M., Evenson, K.R., **Herring, A.H.**, Lewis, C.E., Stefanick, M.L., and LaCroix, A.Z. “Accelerometer-Measured Moderate to Vigorous Physical Activity and Incidence Rates of Falls in Older Women.” **Journal of the American Geriatrics Society**, DOI 10.1111/jgs.14960 (2017).
- 206 Crawford, N.M., Pritchard, D.A., **Herring, A.H.**, and Steiner, A.Z. “Prospective Evaluation of Luteal Phase Length and Natural Fertility.” *Fertility and Sterility*, 107(3):749-755 (2017).
- 205 Davalos*, A.D., Luben, T.J., **Herring, A.H.**, and Sacks, J.D. “Current Approaches Used in Epidemiologic Studies to Examine Short-Term Multipollutant Air Pollution Exposures.” *Annals of Epidemiology*, 27(2):145-153 (2017).
- 204 Dong, F., Howard, A.G., **Herring, A.H.**, Adair, L.S., Thompson, A.L., Popkin, B.M., Aiello, A.E., Zhang, B., and Gordon-Larsen, P. “Concordance of haemoglobin A1c, blood pressure and C-reactive protein between children and their parents in Chinese households.” *Pediatric Obesity* 12: 422-430 (2017).
- 203 Dong, F., Howard, A.G., **Herring, A.H.**, Thompson, A.L., Popkin, B.M., Aiello, A.E., Zhang, B., and Gordon-Larsen, P. “Longitudinal associations of away-from-home eating, snacking, screen time, and physical activity behaviors with cardiometabolic risk factors among Chinese children and their parents.” *American Journal of Clinical Nutrition* 106(1):168-178 (2017).
- 202 Dong, F., Howard, A.G., **Herring, A.H.**, Thompson, A.L., Popkin, B.M., Aiello, A.E., Zhang, B., and Gordon-Larsen, P. “Parent-child associations for changes in diet, screen time, and physical activity across two decades in modernizing China: China Health and Nutrition Survey 1991-2009.” *International Journal of Behavioral Nutrition and Physical Activity*, 13:118 (2017).
- 201 Evenson, K.R., **Herring, A.H.**, and Wen, F. “Accelerometry-Assessed Latent Class Patterns of Physical Activity and Sedentary Behavior With Mortality.” *American Journal of Preventive Medicine*, 52(2):135-143 (2017).

- 200 Fuller, J.E., Walter, E.B., Dole, N., O'Hara, R., **Herring, A.H.**, Durkin, M.S., Specker, B., and Wey, B. "State-Level Immunization Information Systems: Potential for Childhood Immunization Data Linkages." *Maternal and Child Health Journal*, 21(1):29-35 (2017).
- 199 Furlong, M.A., **Herring, A.H.**, Buckley, J.P., Goldman, B.D., Daniels, J.L., Engel, L.S., Wolff, M.S., Chen, J., Wetmur, J., Barr, D.B., and Engel, S.M. "Prenatal Exposure to Organophosphorus Pesticides and Childhood Neurodevelopmental Phenotypes." *Environmental Research* 158:737-747 (2017).
- 198 Ghosh, A., Abdelwahib, S.H., Reeber, S.L., Reidel, B., Marklew, A.J., Garrison, A.J., Lee, S., Dang, H., **Herring, A.H.**, Glish, G.L., Kesimer, M., and Tarran, R. "Little Cigars are More Toxic than Cigarettes and Uniquely Change the Airway Gene and Protein Expression." *Scientific Reports* 7:46239 (2017).
- 197 Ghosh, A., Nethery, R.C., **Herring, A.H.**, and Tarran, R. "Flavored Little Cigar Smoke Induces Cytotoxicity and Apoptosis in Airway Epithelia." *Cell Death Discovery* 3:17019, doi:10.1038/cddiscovery.2017.19 (2017).
- 196 Hoffman, K., Lorenzo, A., Butt, C., Adair, L., **Herring, A.H.**, Stapelton, H.M., and Daniels, J. "Predictors of Urinary Flame Retardant Concentration among Pregnant Women." *Environment International*, 98:96-101 (2017).
- 195 Inoue, Y., Howard, A.G., Thompson, A.L., Mendez, M.A., **Herring, A.H.**, and Gordon-Larsen, P. "The Association Between Urbanization and Reduced Renal Function: Findings from the China Health and Nutrition Survey." *BMC Nephrology*, 18(1):160 (2017).
- 194 Jenkins, G.P. Evenson, K.R., **Herring, A.H.**, Hales, D., and Stevens, J. "Cardiometabolic Correlates of Physical Activity and Sedentary Patterns in US Youth." *Medicine and Science in Sports and Exercise* doi: 10.1249/MSS.0000000000001310 (2017).
- 193 Jenkins, M.M., Reefhuis, J., **Herring, A.H.**, and Honein, M.A. "Impact of sample collection participation on the validity of estimated measures of association in the National Birth Defects Prevention Study when assessing gene-environment interactions." *Genetic Epidemiology* 41(8):834-843 (2017).
- 192 Kaufeld, K.A., Fuentes, M., Reich, B.J., **Herring, A.H.**, Shaw, G.M., and Terres, M.A. "A Multivariate Dynamic Spatial Factor Model for Speciated Pollutants and Adverse Birth Outcomes." *International Journal of Environmental Research and Public Health*, 14(9), 1046; doi:10.3390/ijerph14091046 (2017).

- 191 LaCroix, A.Z., Rillamas-Sun, E., Buchner, D., Evenson, K.R., Di, C.Z., Lee, I.M., Marshall, S., LaMonte, M.J., Hunt, J., Tinker, L.F., Stefanick, M., Lewis, C.E., Bellettiere, J., and **Herring, A.H.** “The Objective Physical Activity and Cardiovascular Disease Health in Older Women (OPACH) Study.” *BMC Public Health*, 17, DOI 10.1186/s12889-017-4065-6 (2017).
- 190 Lawson*, M., Hemming, K., and **Herring, A.H.** “Multiple Comparisons: A Tutorial. Part I. Understanding Hypothesis Testing.” *British Journal of Obstetrics and Gynecology*, to appear.
- 189 Singer, A.B., Aylsworth, A.S., Croen, L.A., DiGuseppi, C., Fallin, M.D., **Herring, A.H.**, Hooper, S.R., Pretzel, R.E., Schieve, L.A., Windham, G.C., and Daniels, J.L. “Prenatal Alcohol Exposure in Relation to Autism Spectrum Disorder: Findings from the Study to Explore Early Development (SEED).” *Paediatric and Perinatal Epidemiology* 31(6):573-582 (2017).
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- 10 Yang, J.*, Savitz, D.A., Dole, N., **Herring, A.H.**, and Hartmann, K. "Vaginal Bleeding During Pregnancy and Preterm Birth." *American Journal of Epidemiology*, 160:118-125 (2004).
- 9 Zizza, C.A*., **Herring, A.H.**, Stevens, J., and Popkin, B.M. "Length of Hospital Stays Among Obese Individuals." *American Journal of Public Health*, 94(9):1587-1591 (2004).
- 8 Kaufman, J., Dole, N., Savitz, D.A., and **Herring, A.H.** "Modeling Community-Level Effects on Preterm Birth." *Annals of Epidemiology*, 13(5):377-384 (2003).
- 7 Zizza, C.*, **Herring, A.H.**, Stevens, J., and Carey, T.S. "Bariatric Surgeries in North Carolina, 1990-2001: A Gender Comparison." *Obesity Research*, 11:1519-1525 (2003).
- 6 Zizza, C.*, **Herring, A.H.**, Stevens, J., and Popkin, B.M. "The Effect of Weight Change on Time to Nursing Home Care Facility Admission in the NHANES I Epidemiologic Follow-Up Survey." *Journal of Clinical Epidemiology*, 56(9):906-913 (2003).

- 5 Savitz, D., Henderson, L., Dole, N., **Herring, A.**, Wilkins, D., Rollins, D., and Thorp, J. "Indicators of Cocaine Exposure and Preterm Birth." *Obstetrics and Gynecology*, 99(3):458-465 (2002).
- 4 Savitz, D.A., Terry, J.W., Dole, N., Thorp, J.M., Siega-Riz, A.M., and **Herring, A.H.** "Comparison of Pregnancy Dating by Last Menstrual Period, Ultrasound, and their Combination." *American Journal of Obstetrics and Gynecology*, 187(6):1660-1666 (2002).
- 3 Zizza, C. *, **Herring, A.H.**, Stevens, J., and Popkin, B.M. "Obesity Affects Nursing Care Facility Admission Among Whites but Not Blacks." *Obesity Research*, 10(8):816-823 (2002).
- 2 Guajardo, G., Okamoto, Y., Gogen, H., Shanfeld, J.L., Dobeck, J., **Herring, A.H.**, and Davidovitch, Z. "Immunohistochemical Localization of Epidermal Growth Factor in Cat Parodontal Tissues During Tooth Movement." *American Journal of Orthodontics and Dentofacial Orthopedics*, 118(2):210-19 (2000).
- 1 Lin, A.E., **Herring, A.H.**, Amstutz, K.S., Westgate, M.N., Lacro, R.V., Al-Jufan, M., Ryan, L.M., and Holmes, L.B. "Cardiovascular Malformations: Changes in Prevalence and Birth Status, 1972-1990." *American Journal of Medical Genetics*, 84:102-110 (1999).

INVITED
COMMENTARY,
SHORT COM-
MUNICATIONS,
AND
MISCELLANEA

Tang*, B., and **Herring, A.H.** Review of *Bayesian Statistical Methods*, *Biometrics* 76(2):671-672 (2020).

Van Buren*, E., and **Herring, A.H.** "To be Parametric or Non-Parametric, That Is the Question: Parametric and Non-Parametric Statistical Tests." **British Journal of Obstetrics and Gynecology**, 127(5):549-550 (2020).

Chuang-Stein, C., Balakrishnan, N., Berzofsky, M., **Herring, A.**, Hulting, F., McKenzie, J., Stigler, S., Williams, G., and Wasserstein, R. "Celebrating the 175th Anniversary of ASA." *American Statistician*, 69(2):64-67 (2015).

Herring, A.H. and Reddy, U. Invited Commentary on "Recurrence Risk of Stillbirth in the Second Pregnancy." *British Journal of Obstetrics and Gynecology*, 117(10):1173-1174 (2010).

Herring, A.H. Invited Commentary on "Antenatal Magnesium Sulfate May Prevent Cerebral Palsy in Preterm Infants – But Are We Convinced?" *British Journal of Obstetrics and Gynecology*, 118(1):5 (2010).

RESEARCH
GRANTS

Statistical methodology

Principal Investigator, “Reproducibility and Robustness of Dimension Reduction,” NIH (NIEHS) R01, 09/01/17-04/30/22, \$2,374,216 total

Co-Investigator, “Structured Nonparametric Methods for Mixtures of Exposures,” NIH (NIEHS) R01, 03/01/18-02/28/22

Principal Investigator, “Bayesian Methods for High-Dimensional Epidemiologic Data,” NIH (NIEHS) R01, 08/24/2011-11/30/2016, \$1,649,165 total

Principal Investigator, “Statistical Methods for Assessing the Impact of Pregnancy Weight Gain on Maternal and Child Health Outcomes,” DHHS Maternal and Child Health Bureau, 02/01/2008-08/31/2009, \$100,000 total

Principal Investigator, “Modeling Complex Exposures and Reproductive Outcomes,” NIH (NICHD) R03, 07/01/2004-06/30/2006, \$142,320 total

Principal Investigator, “Bayesian Methods for Characterizing Complex Multivariate Exposures,” Environmental Protection Agency STAR Award, 11/01/2004-10/31/2008, \$389,248 total

Principal Investigator, “Modeling Complex Exposures Using Joint Models,” UNC Center for Environmental Health and Susceptibility, 04/01/2003-03/31/2004, \$15,000 total.

Principal Investigator, “Censored Covariates,” UNC Center for AIDS Research, 08/20/2001-05/31/2002, \$10,000 total

Principal Investigator, “New Statistical Approaches for Combining Multiple-Source Environmental Data,” UNC Center for Environmental Health and Susceptibility, \$25,000 total

Co-Investigator, “Structured Nonparametric Methods for Mixtures of Exposures,” NIH (NIEHS) R01, 03/01/2018-02/28/2022, \$1,702,176 total

Co-Investigator, “Space-Time Modeling Climate Change, Pollutant Exposure, Built Environments, and Health Outcomes,” NIH (NIEHS) R01, 08/24/2011-05/31/2016, \$1,094,446 total

Training grant

Contact Principal Investigator and Program Director (co-PI and Associate Director Rebecca Fry), “Biostatistics for Research in Environmental Health,” NIH (NIEHS), 07/01/2012-06/30/2017, \$6,026,934 total, provided funding for 23 pre-doctoral students and 5 post-doctoral scholars

Conference grants

Co-Principal Investigator (PI Brent Coull), “Workshop for Junior Biostatisticians in Health Research,” NIH, 2015-2018, \$45,000 total, provides funding for 40 junior researchers to attend 1.5 day workshop prior to ENAR to learn skills in publications, interdisciplinary collaboration, grant writing, and career development

Principal Investigator (co-PI Xihong Lin), “Workshop for Junior Biostatisticians in Health Research,” NIH (NCI, NIEHS, NHLBI, NIAID), 2013, \$35,000 total

Principal Investigator (co-PI Xihong Lin), “Workshop for Junior Biostatisticians in Health Research,” NIH (NCI, NIEHS, NHLBI, NIAID), 2009-2012, \$100,000 total

Public health and medicine

Co-Investigator, “Sepsis Characterization in Kilimanjaro,” NIH/NIAID, 9/23/20-8/31/25, PI: Matt Rubach (Medicine and Global Health)

Co-Investigator, “Flame retardant effects on thyroid hormone regulation at the fetal-maternal interface of the placenta,” NIH/NIEHS, 6/11/20-3/31/25, PI: Heather Stapleton (Nicholas School of the Environment)

Co-Investigator and Sub-Contract PI, “North Carolina Birth Defects Study to Evaluate Pregnancy Exposures II (BD-STEPS II),” 9/1/18-8/31/23, PI: Andrew Olshan (Epidemiology)

Co-Investigator, “North Carolina Birth Defects Study to Evaluate Pregnancy Exposures (BD-STEPS),” 9/1/13-8/31/18, \$2,715,000 total, PI: Andrew Olshan (Epidemiology)

Co-Investigator, “Cooperative Multicenter Reproductive Medicine Network,” NIH (NICHD), 9/24/13-6/30/18, PI: Anne Steiner (Obstetrics and Gynecology)

Co-Investigator, “Prenatal Toxicant Exposure and Risk of ADHD,” 8/30/12-5/31/17, NIH (NIEHS), PI: Stephanie Engel (Epidemiology)

Co-Investigator “Gastrin-releasing Peptide and Bronchopulmonary Dysplasia,” NIH (NICHD), 9/1/11-2/28/17, \$2,992,402 total, PI: Judith Voynow (Virginia Commonwealth University)

Co-Investigator, “CADDRE: Study to Explore Early Development (SEED) Phase II,” 7/1/11-6/30/16, CDC, PI: Julie Daniels (Epidemiology)

Co-investigator, “Regional Brain Manganese Accumulation and Functional Consequences in Welders,” NIH (NIEHS), 8/16/2011-4/30/2016, \$127,314 total subcontract to UNC, UNC PI: Mike Flynn (Environmental Sciences and Engineering)

Co-investigator, “Biomarkers of Infertility,” NIH (NICHD), 4/15/11-3/31/17, PI: Anne Steiner (Obstetrics and Gynecology)

Co-investigator, “Cooperative Multicenter Reproductive Medicine Network,” NIH (NICHD), 9/24/13-6/30/18, PI: Anne Steiner (Obstetrics and Gynecology)

Co-Investigator, “Emergence of Cardiometabolic Risk Across the Lifecycle in China,” NIH (NHLBI), 4/1/11-2/28/17, \$3,608,790 total, PI: Penny Gordon-Larsen (Nutrition)

Biostatistician, “National Associations of Objectively Measured Physical Activity and Mortality,” NIH (NHLBI), 3/1/12-2/28/16, \$176,120 total, PI: Kelly Evenson (Epidemiology)

Co-Investigator, “Objective Physical Activity and Cardiovascular Health in Women Aged 80 and Older,” NIH (NHLBI), 9/1/11-4/30/15, \$977,906 total, PI: Andrea LaCroix (Fred Hutchinson Cancer Research Center)

Core Leader, “UNC-CH Center for Environmental Health and Susceptibility,” NIH (NIEHS), 4/1/10-3/31/15, \$5,768,998 total, PI: James Swenberg (Environmental Science and Engineering)

Co-investigator, “Sexual Behavior Trajectories from Adolescence to Adulthood,” NIH (NICHD), 3/1/10-2/28/15, \$1,601,631 total, PI: Carolyn Halpern (Maternal and Child Health)

Co-Investigator, “A Pooled Investigation of Prenatal Phthalate Exposure and Childhood Obesity,” 11/1/12-10/31/14, NIH (NIEHS), PI: Stephanie Engel (Epidemiology)

Co-investigator, “North Carolina Center for Birth Defects Research and Prevention,” CDC, 12/1/08-8/30/14, \$5,590,951 total, PI: Andrew Olshan (Epidemiology)

Co-investigator, “Accelerating Adoption of Comparative Effectiveness Research in Premature Infants,” 9/20/10-8/31/13, AHRQ (Duke Subcontract), PI: Brian Smith (Duke School of Medicine)

Co-investigator, “Impact of Maternal-Infant Therapeutics on Safety, Mortality, and Disability,” AHRQ, 9/1/10-8/31/13, \$627,079 subcontract total, PI: Daniel Benjamin (Duke Pediatrics)

Mentor (K award), “PTSD and Dual Disorders at the Interface of the Mental Health and Criminal Justice Systems,” NIH (NIMH), 9/17/07-5/31/12, \$616,865 total, PI: Karen Cusack (Psychiatry)

Co-investigator, “North Carolina Center for Autism and Developmental Disabilities Research and Epidemiology,” CDC, 9/30/06-6/29/11, \$736,209 total, PI: Julie Daniels (Epidemiology and Maternal and Child Health)

Co-investigator, “Time to Conceive,” NIH (NICHD), 5/15/09-4/30/11, \$408,541 total, PI: Anne Steiner (Obstetrics and Gynecology)

Biostatistician, “Maternal Genetic Variation and Risk of Adverse Pregnancy Outcomes,” NIH (NICHD), 5/15/09-4/30/11, \$299,667 subcontract total, PI: Stephanie Mulherin-Engel (Mt. Sinai School of Medicine)

Co-investigator, “National Children’s Study North Carolina Center,” NIH (NICHD), 9/30/05-9/29/10, \$5,252,993 total, PI: Barbara Entwisle (Sociology)

Researcher, “Statistical and Applied Mathematical Sciences Institute,” NSF, 8/1/09-7/31/10, \$2,408,888 total, PI: Michael Minion (Mathematics)

Co-Investigator, “Understanding Change in Physical Activity Postpartum,” NIH (NCI), 09/03/2004-12/31/2009, \$1,452,377 total, PI: Kelly Evenson (Epidemiology)

Co-Investigator, “PBDE Exposure and Child Neurological Outcomes,” Environmental Protection Agency, 10/01/2005-3/14/2009, \$864,655 total, PI: Julie Daniels (Epidemiology)

Co-Investigator, “Consequences and Course of Uterine Fibroids in Pregnancy,” NIH (NICHD), 01/01/2004-12/31/2007, \$2,952,611 total, PI: Kathie Hartmann (Obstetrics and Gynecology and Epidemiology)

Co-Investigator, “Exploring Relationships Between Adult Physical Activity and Perceived and Objective Measures of Community Environmental Characteristics,” Robert Wood Johnson Foundation, 12/01/2005-11/30/2007, \$310,133 total, PI: Kelly Evenson (Epidemiology)

Co-Investigator, “NSAIDs and Pregnancy Outcome,” NIH (NICHD), 01/01/2006-09/30/2007 (grant moved to Vanderbilt University with PI), \$3,663,908 total, PI: Kathie Hartmann (Obstetrics and Gynecology)

Co-Investigator, “Pregnancy Related Weight Gain: A Link to Obesity,” NIH (NIDDK), 08/26/2002-07/31/2007, \$2,247,569 total, PI: Anna Maria Siega-Riz (Nutrition and Maternal and Child Health)

Co-Investigator, “Ethnicity and Pregnancy Outcome in New York City,” NIH (NICHD), 07/01/2005-06/30/2007, \$397,701 total, PI: David Savitz (Epidemiology)

Co-Investigator, “Placental Vascular Compromise and Preterm Delivery,” NIH (NICHD), 09/01/2001-08/31/2006, \$2,736,186 total, PI: John M. Thorp (Obstetrics and Gynecology)

Biostatistician, “Development of an Objective Measure of Television Watching,” Gatorade (through UNC Department of Nutrition), 02/01/2005-06/30/2005, \$60,000 total, PI: Kelly Evenson (Epidemiology)

Biostatistician, “Epidemiology of Exertion, Stress, and Preterm Delivery,” NIH (NICHD), 11/01/2000-01/31/2005, \$3,110,752 total, PI: David A. Savitz (Epidemiology)

Biostatistician, “Profiles of Susceptibility to Toxicant Stress,” NIH (NIEHS), 04/01/2001-04/01/2003, \$7,588,611 total, PI: William Kaufmann (Pathology)

Biostatistician, “Influence of Iron, Zinc, and Folate on Preterm Delivery,” NIH (NICHD), 01/01/2001-12/31/2001, \$1,953,617 total, PI: David A. Savitz (Epidemiology)

INVITED TALKS
(2010-
PRESENT)

“Informative Priors for Clustering,” Yale University Department of Biostatistics and Bioinformatics, February 2020

“Missing Data in Accelerometry,” Use of Wearable and Implantable Devices in Health Workshop, BIRS, February 2020

“Informative Priors for Clustering,” Joint Statistical Meetings, Denver, Colorado, July 2019

“Data Science to Improve Health,” Columbia University Public Health Grand Rounds, March 2019

“Humanity in a World of Machine Learning,” Congreso Futuro, Santiago, Chile, January 2019

“Statistical Models for Sharing Information to Learn about Health,” Pontificia Universidad Catolica de Chile, January 2019

“Centered Partition Processes: Lumping Versus Splitting in Sparse Health Data,” Keynote Lecture, Bayesian Statistics in the Big Data Era, CIRM (Marseille/Luminy, France), November 2018

“Statistics for Science’s Sake,” Harvard University Department of Biostatistics Lagakos Distinguished Alumni Lecture, October 11, 2018

“Statistics for Science’s Sake,” University of Rochester Yakovlev Colloquium, September 17, 2018

“Methods for Borrowing Information Within and Across Subpopulations,” ISBA World Meeting, Edinburgh, Scotland, June 29, 2018

“Challenges in Modeling Associations Between Environmental Exposures and Pregnancy Outcomes, NIH/NIEHS, May 21, 2018

“Study Design, Data Analysis, Reporting, and Interpretation: Choices and Consequences,” McMaster University, March 6, 2018

“Statistics for Science’s Sake: Applications Motivating Methods,” Janice Pogue Memorial Lecture, McMaster University, March 5, 2018

“Bayesian Models for Multivariate Dynamic Survey Data,” Emory University, January 25, 2018

“Bayesian Models for Multivariate Dynamic Survey Data,” Harvard University Department of Biostatistics Colloquium, March 23, 2017

“Challenges in Modeling Associations Between Environmental Exposures and Pregnancy Outcomes,” University of Michigan Environmental Statistics Day, February 23, 2017

“Spatial-temporal Modeling of the Association Between Air Pollution Exposures and Birth Outcomes: Identifying Critical Exposure Windows,” The John C. & Susan S.G. Wierman Lecture, Department of Applied Mathematics and Statistics, Johns Hopkins University, February 2, 2017

“Bayesian Models for Multivariate Dynamic Survey Data,” Duke University Department of Statistical Science, September 2016

“Discrete, Multivariate Longitudinal Data with Survey Weights,” International Society for Bayesian Analysis World Meeting, June 2016

“Discrete, Multivariate Longitudinal Data with Survey Weights,” Texas A&M University Department of Statistics, April 2016

“Generalizability of Dimension Reduction,” Texas A&M University Biostatistics, Epidemiology, and Maternal and Child Health, April 2016

“Discrete Multivariate, Longitudinal Data with Survey Weights,” Princeton University Center for Statistics and Machine Learning, November 2015

“How to Navigate the Academic Jungle without Going Bananas,” ENAR Spring Meeting, March 2015

“Bayesian Modeling with Sample Survey Weights,” Brown University, January 2015

“Sex, Lies, and BMJ,” Duke University First-Year Seminar, November 2014

“Sex, Lies, and BMJ,” University of Michigan, January 2014

“Research Challenges in Biostatistics: Healthy Babies, Virgin Moms, and New Methods in Between!” Spring Opportunities Workshop for Women in the Mathematical Sciences, University of Tennessee, April 2014

“Sex, Lies, and BMJ,” Duke University Statistics Seminar, December 2013

“Bayesian Borrowing of Information and Shrinkage for Correlated Categorical Data,” Federal Highway Administration (meeting at SAMSI), December 2013

“Speciated Particulate Matter and Cardiovascular Malformations,” Joint Statistical Meetings, Montreal, Canada, August 2013

“Joint Modeling of High-Dimensional Exposures and Outcomes in an Epidemiologic Study,” North Carolina State University, April 2013

“New Methods for Borrowing of Information,” National Birth Defects Prevention Network Meeting, February 2013

“Bayesian Spatial-Temporal Models for Studying Air Pollution and Birth Defects,” American Public Health Association, November 2012

“Joint Modeling of High-Dimensional Exposures and Outcomes in an Epidemiologic Study,” FDA, June 2012

“Bayesian Borrowing of Information Across High-Dimensional Exposures and Outcomes” ENAR Spring Meeting, April 2012

“Bayesian Latent Class Models for Complex Data” Penn State University Department of Statistics, January 2012

“Bayesian Methods for High Dimensional Epidemiologic Data with Applications to Congenital Malformations” Johns Hopkins University, April 2011

“Bayesian Methods for High Dimensional Epidemiologic Data” ENAR Spring Meetings, March 2011

“New Spatial Methods for Environmental Epidemiology,” Distinguished Invited Lecture, SAMSI Spatial Transition Workshop, October 2010

“Methods for Assessing Associations between Exposure Profiles and Response in Epidemiologic Studies,” University of Massachusetts, March 2010

“Assessing Impact of Longitudinal Predictors on Changes in Response Densities: Does Amount and Timing of Pregnancy Weight Gain Affect Birth Weight?” University of Wisconsin, February 2010

COURSES
TAUGHT

STA 440, Case Studies (Senior Capstone), 2018 (40 students), 2020 (27 students)

STA 410/STA 610, Hierarchical Models, 2019 (35 students)

STA 540, Case Studies in Statistical and Data Science, summer 2020 (9 students)

GLHLTH 758, Case Studies in Data Science, 2018-2019 (15-20 students)

STA 841, Categorical Data Analysis, 2017 (≈ 35 students)

BIOS 600, Principles of Statistical Inference, 2016, 2014, and 2012 (100-140 students)

BIOS 779, Bayesian Inference, 2015 and 2013 (≈ 30 students)

BIOS 767, Longitudinal Data Analysis, 2006-2012 (≈ 25 students)

BIOS 700, Introduction to Research in Biostatistics, 2008-2010 (≈ 10 students)

BIOS 663, Intermediate Linear Models, 2002-2004 (≈ 25 students)

POSTDOCTORAL
FELLOWS
SUPERVISED

Tommaso Rigon, 2019-2020

Daniel Hernandez-Stumpfhauser, 2014-2016, SAS Institute

Joshua Warren, 2011-2014, Assistant Professor of Biostatistics, Yale University

Carolina Perez-Heydrich (joint with Mike Emch), 2010-2013, Assistant Professor of Biology, Meredith College

Joyee Ghosh, 2008-2010, Associate Professor of Statistics, Iowa State University

Brent Johnson (joint with Joe Ibrahim, Larry Kupper, and Danyu Lin), 2003-2006, Associate Professor of Biostatistics, University of Rochester

DOCTORAL
STUDENTS
SUPERVISED

Bora Jin, 2019-present

Kelly Moran, 2018-2020, Scientist, Los Alamos National Laboratories

Angel Davalos, “Statistical Methods for Exposure Mixtures,” 2014-2019, NIEHS Postdoctoral Scholar

Briana Stephenson, “Latent Class Modeling Across Subpopulations,” 2014-2017, Assistant Professor of Biostatistics, Harvard University

Jing Zhou, “Nonparametric Bayes Methods for High Dimensional Exposures and Outcomes”, 2011-2014, Genentech

Eric Daza, “Causal Methods in HIV Research” (joint with Michael Hudgens), 2011-2015, Stanford University (postdoctoral fellowship)

Brad Hammill, “The Use of Propensity Score Methods to Address Confounding by Provider,” 2013-2015, Assistant Professor of Population Health Sciences, Duke University

Leann Long, “Zero-inflated Models for Longitudinal Data” (joint with John Preisser), 2010-2014, Assistant Professor of Biostatistics, University of Alabama-Birmingham

Matthew Wheeler, “Nonparametric Bayes Methods in Health Science Research” (joint with David Dunson), 2009-2012, CDC

Yue (Sophie) Zhao, “Missing Data in Pharmaceutical Studies” (joint with Gary Koch), 2007-2012, Merck

Daniela Sotres-Alvarez, “Statistical Methods for Estimating Dietary Patterns over Time,” 2007-2010, Associate Professor of Biostatistics, UNC-Chapel Hill

Ben Saville, “Latent Variable Models for Complex Exposure Data,” 2005-2008, Berry Consultants

Chris Slaughter, “Bayesian Models for Time-Varying Exposures and Health Outcomes,” 2004-2007, Associate Professor of Biostatistics, Vanderbilt University

SERVICE ON
DOCTORAL
COMMITTEES

Current: Federico Ferrari (Statistical Science), Heather Mathews (Statistical Science), Vittorio Orlandi (Statistical Science)

Completed: Leila Amorim (Biostatistics), Samantha Attard (Nutrition), Sierra Bainter (Psychology), Habtamu Benecha (Biostatistics), Marcus Berzofsky (Biostatistics), Jess Buckley (Epidemiology), George Capuano (Biostatistics), Ronna Chan (Maternal and Child Health), Xu Chen (Statistical Science), Yeonseung Chung (Biostatistics), Jennifer Clark (Biostatistics), Lori Codgill (Epidemiology), Maureen Cooney (Epidemiology), Christina Cordero (Epidemiology), Emil Cornea (Biostatistics), Rebekkah Dann (Biostatistics), Andrea Deierlein (Nutrition), Seleshi Demissie (Biostatistics), Zewde Demissie (Epidemiology), Caroline Hoffman Dilworth (Epidemiology), Kai Ding (Biostatistics), Samantha Drover (Epidemiology), Stephanie Mulherin Engel (Epidemiology), Kenny Fent (Environmental Science and Engineering), Melissa Furlong (Epidemiology), Suzanne Gutter Gilboa (Epidemiology), Jennifer Griffin (Epidemiology), Anne Hakenwerth (Epidemiology), Emily Harville (Epidemiology), Reem Hasan (Epidemiology and Medicine), Abigail Haydon (Maternal and Child Health), David Holcomb (Environmental Science and Engineering), Zhaowei Hua (Biostatistics), Mike Hussey (Biostatistics), Shane Hutton (Psychology), Rebecca James (Epidemiology), Anne Marie Jukic (Epidemiology), Connie Kang (Environmental Science and Engineering), Sangwook Kang (Biostatistics), Sarah Keim (Epidemiology), David Kessler (Biostatistics), Sibylle Kranz (Nutrition), Diana Lam (Biostatistics), Isaac Lavine (Statistical Science), Siying Li (Biostatistics), Zhiwen Liu (Epidemiology), Dustin Long (Biostatistics), Rich MacLehose (Epidemiology), Liz Lorenzi (Statistical Science), Jim McGinley (Psychology), Aileen McGinn (Epidemiology), Ushma Mehta (Nutrition), Lynne Messer (Epidemiology), Irina Mordukhovich (Epidemiology), Andy Ni (Biostatistics), Eric Nowicki (Epidemiology), I-Jen Pan (Epidemiology), Yinghao Pan (Biostatistics), Ju-Hyun Park (Biostatistics), Sola Park (Biostatistics), Mike Pennell (Biostatistics), Lisa Pompeii (Epidemiology), Bianka Reese (Maternal and Child Health), Jeanette Reyes (Environmental Sciences and Engineering), Joe Rigdon (Biostatistics), Sharon Sagiv (Epidemiology), Allie Sanders (Environmental Sciences and Engineering), Doug Schaubel (Biostatistics), Meghan Slining (Nutrition), Aubrey Spriggs (Maternal and Child Health), Thomas Stewart (Biostatistics), Austin Talbot (Statistical Science), Kyla Taylor (Epidemiology), Xiaoyan Wang (Biostatistics), Lexie White (Epidemiology), Andra Wilkinson (Maternal and Child Health), Juan Yang (Epidemiology), Yingqi Zhao (Biostatistics), Claire Zizza (Nutrition), Baiming Zou (Biostatistics)

MASTER'S
STUDENTS
SUPERVISED

Erica Browne (2013), April Coan (2006), Jamie Bigelow Crandell (2003), Kelly Forsythe (2003), Katie Garcia (2013), Andy Garrison (2015), Chris Glessner (2014), Steven Hoberman (2010), Christoph Hornik (2012), Laura

Liao (2004; winner of master's paper award), Yizi Lin (current), Matthew Matheson (2009), Larry Michael (2010), Lauren Paynter (2010), Beth Skalicky (2003), Annie Spencer (2003), Amanda Tapia (2015), Joy Wu (2006)

MASTER'S
COMMITTEES

Abdoulie Ceesay (Global Health, 2019-present), Freya Fu (Statistical Science, 2019), Gauri Kamat (Statistical Science, 2018-2019), Bethany Kuerten (Global Health, 2018-2019), Assumpta Nantume (Global Health, 2018-2019), Steve Shao (Statistical Science, 2019), Sarah Snouse (Global Health, 2019-2020), Michael Valancius (Statistical Science, 2019-present), Xinlu Zhao (Global Health, 2018-2019)

UNDERGRAD
HONORS
PROJECT

Eric Emilio Butter, 2009-2010
Anna Darwish, 2020-present

SERVICE TO
THE
PROFESSION

Professional Organizations

Executive Board (Director), International Biometric Society, 2021-2024

Chair-Elect, Chair, and Past-Chair, American Statistical Association Section on Bayesian Statistical Science, 2021-2023

Member, Committee on Funded Research, American Statistical Association, 2020-2022

Chair, American Statistical Association Biometrics Section, 2017

Executive Secretary, International Society for Bayesian Analysis, 2016-2018

Chair, COPSS President's Award Selection Committee, 2018 (ASA Representative 2016-2019)

Member, Lester R. Curtin Award Committee, ASA, 2018

Member, ASA Biometrics Section Student Awards Committee, 2015-2018

Chair, APHA Mortimer Spiegelman Award Committee, 2015 (Member 2013-2015)

Member, Committee on Meetings, American Statistical Association, 2013-2015

Member, Board of Directors, International Society for Bayesian Analysis, 2013-2015

Chair, Distinguished Student Paper Awards Committee, Eastern North American Region of the International Biometric Society (ENAR), 2012 (largest professional organization of biostatisticians in North America)

Chair, Nominations Committee, Eastern North American Region of the International Biometric Society (ENAR), 2012

Chair, COPSS President Selection Committee, 2012

President, Eastern North American Region of the International Biometric Society (ENAR), 2011 (President-Elect, 2010; Past-President, 2012)

Board of Trustees, National Institute of Statistical Sciences, 2011

Member, American Statistical Association 175th Anniversary Steering Committee, 2011-2014

Member, International Biometric Society Bylaws Revision Committee, 2011-2012

Committee of Presidents of Statistical Societies (COPSS), 2010-2012

Chair, ENAR Regional Advisory Board (RAB), 2008-2009

Program Chair and Chair-Elect, ASA Section on Statistics in Epidemiology, 2008-2009

Program Chair, ENAR 2007 Spring Meeting, 2006-2007

Regional Advisory Board, ENAR, 2004-2006

Scientific Review Groups, Expert Panels, and Consensus Committees

Ad Hoc Member, NLM BLIR Review Panel, 2020

Member, NIEHS RIVER Awards Review, 2018

Member, NASEM Committee on Applied and Theoretical Statistics (CATS), 2015-present

Member, Research Committee, Health Effects Institute, 2015-present

Member, Institute of Medicine Consensus Committee on Obesity Trends, 2015-2016

Member, National Research Council Committee to Review EPA's Draft State of the Science Report on Nonmonotonic Dose Response, 2013-2014

Standing Member, FDA Bone, Reproductive, and Urologic Drugs Advisory Committee, 2014-2016

Study Section Member, NIEHS K Awards Review, 2014

Study Section Member, NIEHS T32 Awards Review, 2014

Health Effects Institute, Grant Review Committee, May 22-23, 2013

Temporary Member, FDA Pulmonary-Allergy Drugs Advisory Committee, January 29-30, 2013

Standing Member, NIH Environmental Health Sciences Review Committee, 2009-2012

Study Section Member, NCI, 2008

Study Section Member, NIEHS ONES Awards Review, 2008

Study Section Member, NIEHS Special Study Section, 2008

Study Section Member, NICHD Special Section, 2007

Study Section Member, NIH/NIEHS DISCOVER Center Review, 2007

Grant Reviewer, U.S. Department of State Civilian Research and Development Foundation, 2003

Editorial Responsibilities

Associate Editor, *Journal of the American Statistical Association, Theory and Methods*, 2018-present

Associate Editor, *Journal of the American Statistical Association, Applications and Case Studies*, 2009-2018

Associate Editor, *Environmental Health Perspectives*, 2010-2017

Associate Editor, *Statistics in Biosciences*, 2008-2014

Associate Editor, *Biometrical Journal*, 2007-2010

Consultant, *British Journal of Obstetrics and Gynecology*, 2010-present

Reviewer for *American Journal of Epidemiology*, *Biometrics*, *Biostatistics*, *British Journal of Obstetrics and Gynecology*, *Circulation*, *Epidemiology*, *Human Reproduction*, *JASA*, *JRSS-B*, *JRSS-C*, *JSPI*, *Lifetime Data Analysis*, *Obstetrics and Gynecology*, *Paediatric and Perinatal Epidemiology*, *Statistical Modelling*, *Statistics and Operations Research*, *Statistics and Probability Letters*, *Statistics in Medicine*, 2000-present

Other Service

Member, ISBA Committee on Named Lectures, 2020-2022

Member, Scientific Advisory Committee, Harvard/EPA Center on Air Quality and Energy, 2016-present

Member, External Advisory Committee, UNC Center for Environmental Health and Susceptibility

Member, Data Safety and Monitoring Board, NICHD Folic Acid and Zinc Supplementation Trial, 2012-2018

Member, Advisory Committee, Project CHEER, UNC-Chapel Hill, 2012-2017

Member, External Research Advisory Board, North Carolina Cleft Outcomes Study, 2012-2017

Member, National Children's Study Publications Committee, 2011-2012

External Advisory Committee, Center of Biomedical Research Excellence (Environmental Health Sciences), University of Montana, 2010-2017

Technical Qualifications Board, Environmental Protection Agency, 2010

External Reviewer, NIH/NICHD Biostatistics Branch, 2008

Consultant, Institute of Medicine Pregnancy Weight Committee, 2008

Particulate Matter Integrated Scientific Assessment Peer Review Panelist, Environmental Protection Agency, 2008

Consultant, NICHD and ACC research initiative on exposure to mixtures of chemicals, 2007-2008

Advisory Board, NICHD Reproductive Medicine Network, 2007-2014

Judge, NIEHS/NIH Science Day, 2007 and 2010

Invited Participant, Environmental Protection Agency Workshop on Analysis of Children's Measurement Data, 2005

Consultant, March of Dimes, 2004

Data Safety and Monitoring Committee, Phase 2 Study of TDF for HIV Prevention in Women, Family Health International, 2003-2006

SERVICE TO
DUKE
UNIVERSITY

Advisory Committee on Appointment, Promotion, and Tenure, January 2020-2022

Assistant Director of Undergraduate Studies, Duke Global Health Institute, June 2020-present

Duke Science and Technology Advisory Committee, 2018-present

Distinguished Professors Advisory Committee, 2018-present (Chair 2020-2021)

Quality Enhancement Plan Advisory Committee, 2020-present

Director of Undergraduate Studies in Statistical Science, 2019-present

Directors of Undergraduate Study Advisory Board, 2019-present

Directors of Undergraduate Study Executive Board, 2019-present

Practice-track faculty search committee in Statistical Science (chair), 2018

Tenure-track faculty search committee in Statistical Science, 2017-2018

Master's program admissions committee in Statistical Science, 2017-2018

SERVICE TO
UNC: CHAPEL
HILL

Provost's Committee on Academic Procedures for Student Athletes, 2015-2017

Chancellor's Advisory Committee, 2014-2017

Administrative Boards of the General College and the College of Arts and Sciences, 2015-2017

Chair, UNC Appointments, Promotions, and Tenure Committee, 2014-2015 (Member 2012-2015)

Search Committee for Chair of Health Policy and Management, 2014-2015

UNC Faculty Nominating Committee, 2011, 2015

Academic Leadership Fellow, UNC Institute for the Arts and Humanities, 2011-2012

Chair, UNC Committee on the Status of Women, 2010-2011 (Member 2008-2011)

UNC Faculty Salary Equity Task Force, 2010-2012

Carolina Population Center Training Committee, 2008-2012

Director, Biostatistics and Epidemiologic Methods Facility Core, UNC Center for Environmental Health and Susceptibility, 2007-2010

Co-Director, Biostatistics and Bioinformatics Facility Core, UNC Center for Environmental Health and Susceptibility, 2010-2011

SERVICE TO
UNC
DEPARTMENT
OF
BIostatISTICS

Associate Chair, 2012-2016; Interim Vice Chair, 2016-2017

Member, Tenure-track faculty search committee, 2013-2015

Faculty Mentoring Committee, 2009-2017

Graduate Admissions Committee, 2000-2017

Chair, Search Committee for Director of the Collaborative Studies Coordinating Center, 2012

Chair, Review of the Collaborative Studies Coordinating Center, 2011

Chair, Committee for Departmental 60th Anniversary Conference Celebration, 2009

Graduate School Biostatistics Self-Study Committee, 2007-2008

Search Committee for Chair of Biostatistics, 2005-2006

Doctoral Qualifying Examinations Committee, Department of Biostatistics, 2004-2012

Master's Qualifying Examinations Committee, Department of Biostatistics, 2003-2004

Committee to Evaluate Faculty Compensation, Department of Biostatistics, 2003

Chair, Seminar Committee, Department of Biostatistics, 2001-2003

MEMBERSHIPS

International Biometric Society (Eastern North American Region)

American Statistical Association

International Society for Bayesian Analysis

American Public Health Association

International Statistical Institute