

Amy H. Herring

CONTACT INFORMATION	Department of Statistical Science Box 90251 Durham, NC 27708	amy.herring@duke.edu
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 Duke University <i>Sara & Charles Ayres Distinguished Professor</i> <i>Professor</i> Duke Global Health Institute <i>Research Professor</i> Department of Biostatistics & Bioinformatics <i>Professor</i> Duke Forge Health Data Science Center <i>Co-Director</i> Department of Biostatistics, UNC-Chapel Hill <i>Carol Remmer Angle Distinguished Professor of Children's Environmental Health</i> <i>Associate Chair</i> <i>Professor, Associate Professor, Assistant Professor</i> <i>Fellow, Carolina Population Center</i>	2018-present 2017-present 2017-present 2020-present 2017-2019 2015-2017 2012-2017 2000-2017 2006-2017

HONORS & AWARDS

Armitage Lecturer, University of Cambridge, 2023

Bernard G. Greenberg Distinguished Lecturer, UNC-Chapel Hill, 2023

Elected Fellow, International Society for Bayesian Analysis, 2022

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

REFEREED
JOURNAL
ARTICLES

Citations (from Google Scholar)

h-index: 79

Statistical journals

*Indicates student author

- 290 Jin*, B., **Herring, A.H.**, and Dunson, D.B. “Spatial predictions on physically constrained domains: Applications to Arctic sea salinity data.” (2023) <https://arxiv.org/pdf/2210.03913>
- 289 Matuk, J., **Herring, A.H.**, and Dunson, D.B. “Bayesian Functional Principal Components Analysis using Relaxed Mutually Orthogonal Processes.” (2022) <https://arxiv.org/abs/2205.12361>
- 288 Nguyen*, P.H., Engel, S.M., and **Herring, A.H.** “mpower: An R Package for Power Analysis via Simulation for Correlated Data.” (2022) <https://arxiv.org/abs/2209.08036>
- 287 Jin, B.*, Dunson, D.B., Rager, J.E., Reif, D., Engel, S.M., and **Herring, A.H.** “Bayesian matrix completion for hypothesis testing,” *JRSS-C*, 72(2):254-270 (2023). <https://arxiv.org/abs/2009.08405>
- 286 Rigon, T., **Herring, A.H.**, and Dunson, D.B. “A generalized Bayes framework for probabilistic clustering,” *Biometrika*, to appear (2023). <https://arxiv.org/abs/2006.05451>
- 285 Stephenson, B.J.K.*, **Herring, A.H.**, and Olshan, A.F. “Derivation of Maternal Dietary Patterns Accounting for Regional Heterogeneity,” *JRSS-C*, 71(5):1957-1977 (2022).
- 284 Paganin, S.*, **Herring, A.H.**, Olshan, A.F., and Dunson, D.B. “Centered Partition Process: Robust Priors for Clustering (with Discussion),” *Bayesian Analysis*, 16(1):301-370 (2021).
- 283 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*, 15(3):1405-1430 (2021).
- 282 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*, 70(3):532-557 (2021).

- 281 Roy, A.,* Lavine, I.*, **Herring, A.H.**, and Dunson, D.B. “Perturbed factor analysis: Improving generalizability across studies,” *Annals of Applied Statistics*, 15(3):1386-1404 (2021).
- 280 Stephenson, B.J.K.*, Olshan, A.O., and **Herring, A.H.** “Robust Clustering with Subpopulation-Specific Deviations,” 115(530):521-537 *Journal of the American Statistical Association*, <https://doi.org/10.1080/01621459.2019.1611583> (2020).
- 279 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).
- 278 Kuniyama, T.*, Halpern, C.T. and **Herring, A.H.** “Nonparametric Bayes Models for Mixed-Scale Longitudinal Surveys,” *JRSS-C*, 68(4):1091-1109 (2019).
- 277 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).
- 276 Wheeler, M.*, Dunson, D.B., and **Herring, A.H.** “Bayesian Local Extrema Splines,” *Biometrika* 104(4):939-952 (2017).
- 275 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).
- 274 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).
- 273 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).
- 272 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).

- 271 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).
- 270 Carlin, B.P. and **Herring, A.H.** “A Conversation with Alan Gelfand.” *Statistical Science*, 130(3):413-422 (2015).
- 269 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).
- 268 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).
- 267 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).
- 266 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).
- 265 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).
- 264 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).
- 263 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).
- 262 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).
- 261 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)
- 260 Ghosh, J., **Herring, A.H.**, and Siega-Riz, A.M. “Bayesian Variable Selection for Latent Class Models.” *Biometrics*, 67(3):917-925 (2011).
- 259 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).
- 258 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)
- 257 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).
- 256 **Herring, A.H.** “Nonparametric Bayes Shrinkage for Assessing Exposures to Mixtures Subject to a Limit of Detection.” *Epidemiology*, 21(4):S71-S76 (2010).
- 255 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).
- 254 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).
- 253 Saville*, B.R., and **Herring, A.H.** ”Testing Random Effects in the Linear Mixed Model Using Approximate Bayes Factors.” *Biometrics*, 65:369-376 (2009).
- 252 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).
- 251 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).

- 250 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).
- 249 Slaughter*, J.C., **Herring, A.H.**, and Hartmann, K.H. “Bayesian Modeling of Embryonic Growth Using Latent Variables.” *Biostatistics*, 9(2):373-89 (2008).
- 248 **Herring, A.H.**, and Yang*, J. “Bayesian Modeling of Multiple Episode Occurrence and Severity with a Terminating Event.” *Biometrics*, 63:381-388 (2007).
- 247 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).
- 246 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).
- 245 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).
- 244 Dunson, D.B., and **Herring, A.H.** “Bayesian Latent Variable Models for Mixed Discrete Outcomes.” *Biostatistics*, 6(1):11-25 (2005).
- 243 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).
- 242 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).
- 241 **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).
- 240 **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).

- 239 Dunson, D.B., and **Herring, A.H.** “Hypothesis Testing in the Cox Model for Order Restricted Alternatives.” *Biometrics*, 59(4):918-925 (2003).
- 238 **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).
- 237 **Herring, A.H.**, Ibrahim, J.G., and Lipsitz, S.R. “Frailty Models with Missing Covariates.” *Biometrics*, 58(1):98-109 (2002).
- 236 **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

- 235 Peter-Marske, K.M., Hesketh, K.R., **Herring, A.H.**, Savitz, D.A., Bradley, C.B., and Evenson, K.R. “Association Between Change in Physical Activity During Pregnancy and Infant Birth Weight,” *Maternal and Child Health Journal* 27(4):659-670 (2023).
- 234 Ramos, A.M., **Herring, A.H.**, Villanger, G.D., Thomsen, C., Sakhi, A.K., Cequier, E., Aase, H., and Engel, S.M. “The association of prenatal phthalates, organophosphorous pesticides, and organophosphate esters with early child language ability in Norway,” *Environmental Research*, <https://doi.org/10.1016/j.envres.2023.115508>, 225 (2023).
- 233 Engel, S.M., Villanger, B., **Herring, A.H.**, Nethery, R.C., Drover, S., Zoeller, R.T., Meltzer, H.M., Zeiner, P., Knudsen, G.P., Reichborn-Kjennerud, T., Longnecker, M.P., and Aase, H. “Gestational Thyroid Hormone Concentrations and Risk of Attention-Deficit Hyperactivity Disorder in the Norwegian Mother, Father and Child Cohort Study” *Paediatric and Perinatal Epidemiology*, 37(3):218-228 (2023).
- 232 Manley, C.K., Villanger, G.D., Thomsen, C., Cequier, E., Sakhi, A.K., Reichborn-Kjennerud, T., Herring, A.H., Øvergaard, K.R., Zeiner, P., Roell, K.R., Engel, L.S., Kamai, E.M., Thistle, J., Hall, A., Aase, H., and Engel, S.M. “Prenatal Exposure to Organophosphorus Pesticides and Preschool ADHD in the Norwegian Mother, Father and Child Cohort Study,” *Int J Environ Res Public Health*, 19(13): 8148 <https://www.mdpi.com/1660-4601/19/13/8148> (2022).
- 231 Nulty, A., Bovbjerg, M.L., Savitz, D.A., **Herring, A.H.**, Bradley, C.B., and Evenson, K.R. “Maternal physical activity at term and spontaneous labor: a case-crossover study” *Journal of Physical Activity and Health*, 19(2):99-107, <https://doi.org/10.1123/jpah.2021-0160> (2022).

- 230 Nulty, A., Bovbjerg, M.L., **Herring, A.H.**, Siega-Riz, A.M., Thorp, J.M., and Evenson, K.R. “Meal patterning and the onset of spontaneous labor.” *Birth*, 49(1):123-131 (2022).
- 229 Thistle, J.E., Ramos, A., Roell, K.R., Choi, G., Manley, C.K., Hall, A.M., Villanger, G.D., Cequier, E., Sakhi, A.K., Thomsen, C., Zeiner, P., Reichborn-Kjennerud, T., Øvergaard, K.R., **Herring, A.H.**, Aase, H., and Engel, S.M. “Prenatal organophosphorus pesticide exposure and executive function in preschool-aged children in the Norwegian Mother, Father and Child Cohort Study (MoBa).” *Environmental Research*, 10.1016/j.envres.2022.113555, (2022).
- 228 Choi*, G., Keil, A.P., Villanger, G.D., Richardson, D.B., Daniels, J.L., Hoffman, K., Sakhi, A.K., Thomsen, C., **Herring, A.H.**, Drover, S.S.M., Nethery, R., Aase, H., and Engel, S.M. “Pregnancy exposure to common-detect organophosphate esters and phthalates and maternal thyroid function.” *Science of the Total Environment*, 782, 146709 (2021).
- 227 Choi*, G., Villanger, G.D., Drover, S.S.M., Sakhi, A.K., Thomsen, C., Nethery, R.C., Zeiner, P., Knudsen, G.P., Reichborn-Kjennerud, T., Øvergaard, K.R., **Herring, A.H.**, Skogan, A.H., Biele, G., Aase, H., and Engel, S.M. “Prenatal phthalate exposures and executive function in preschool children.” *Environment International*, 149, <https://doi.org/10.1016/j.envint.2021.106403> (2021).
- 226 Howard, A.G., Attard, S., **Herring, A.H.**, Wang, H., Du, S., and Gordon-Larsen, P. “Socioeconomic gradients in the Westernization of diet in China over 20 years.” *Social Science and Medicine - Population Health*, <https://doi.org/10.1016/j.ssmph.2021.100943> (2021).
- 225 Kamai, E.M., Villanger, G.D., Nethery, R.C., Thomsen, C., Sakhi, A.K., Drover, S.M., Hoppin, J.A., Knudsen, G.P., Reichborn-Kjennerud, T. Zeiner, P., Overgaard, K., **Herring, A.H.**, Aase, H., and Engel, S. “Gestational Phthalate Exposure and Preschool Attention Deficit Hyperactivity Disorder in Norway.” *Environmental Epidemiology*, 5(4):e161. doi:10.1097/EE9.000000000000161 (2021).
- 224 Lawson*, M., **Herring, A.H.**, and Hemming, K. “Multiple comparisons: a tutorial. Part 2: Understanding multiple comparisons.” *British Journal of Obstetrics and Gynecology*, <https://doi.org/10.1111/1471-0528.16705> (2021).
- 223 Lawson*, M., Hemming, K., and **Herring, A.H.** “Multiple Comparisons: A Tutorial. Part I. Understanding Hypothesis Testing.” *British Journal of Obstetrics and Gynecology*, <https://doi.org/10.1111/1471-0528.16705> (2021). ate exposures and executive function in preschool children.” *Environment International*, 149:106403 (2021).

- 222 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 (2020).
- 221 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*, 150(10):2825-2834 (2020).
- 220 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).
- 219 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).
- 218 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).
- 217 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 (2019).
- 216 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).
- 215 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*, 49(6):2447-2460 (2019).

- 214 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).
- 213 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).
- 212 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).
- 211 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).
- 210 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).
- 209 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).
- 208 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).
- 207 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).

- 206 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).
- 205 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).
- 204 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).
- 203 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).
- 202 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).
- 201 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).
- 200 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).
- 199 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).
- 198 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).
- 197 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).
- 196 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).
- 195 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).
- 194 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).
- 193 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).
- 192 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).
- 191 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).
- 190 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).

- 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).
- 188 Steiner, A.Z., Pritchard, D., Stanczyk, F.Z., Kesner, J.S., Meadows, J.W., **Herring, A.H.**, and Baird, D.D. "Association Between Biomarkers of Ovarian Reserve and Infertility Among Older Women of Reproductive Age." *JAMA* 318(14):1367-1376 (2017).
- 187 Taylor, K.W., Baird, D.D., **Herring, A.H.**, Engel, L.S., Nichols, H.B., Sandler, D.P., and Troester, M.A. "Associations Among Personal Care Product Use Patterns and Exogenous Hormone Use in the NIEHS Sister Study." *Journal of Exposure Science and Environmental Epidemiology*, 27(5):458-464, 2017.
- 186 Aliaga, S., Zhang, J., Long*, L., **Herring, A.H.**, Laughon, M., Boggess, K., Reddy, U.M., and Grantz, K.L. "Center Variation in the Delivery of Indicated Late Preterm Births." *American Journal of Perinatology*, 33(10):1008-1016 (2016).
- 185 Buckley*, J.P., Engel, S.M., Braun, J.M., Whyatt, R.M., Daniels, J.L., Mendez, M.A., Richardson, D.B., Calafat, A.M., Lanphear, B.P., Wolff, M.S., **Herring, A.H.**, Rundle, A.G. "Prenatal Phthalate Exposures and Body Mass Index Among 4 to 7 Year Old Children: A Pooled Analysis." *Epidemiology*, 27(3):449-458 (2016).
- 184 Buckley*, J.P., Engel, S.M., Mendez, M.A., Richardson, D.B., Daniels, J.L., Calafat, A.M., Wolff, M.S., and **Herring, A.H.** "Prenatal Phthalate Exposures and Childhood Fat Mass in a New York City Cohort." *Environmental Health Perspectives*, 124(4):507-513 (2016).
- 183 Buckley*, J.P., **Herring, A.H.**, Wolff, M.S., Calafat, A.M., Engel, S.M. "Prenatal Exposure to Environmental Phenols and Childhood Fat Mass in the Mount Sinai Children's Environmental Health Study." *Environment International*, 91:350-356 (2016).
- 182 Crawford, N.M., Pritchard, D.A.* , **Herring, A.H.**, and Steiner, A.Z. "Prospective Evaluation of the Impact of Intermenstrual Bleeding on Natural Fertility." *Fertility and Sterility*, 105(5):1294-1300 (2016).
- 181 Evenson, K., **Herring, A.H.**, and Wen, F. "Accelerometer-Assessed and Self-Reported Physical Activity and Sedentary Behavior with All-Cause and Cardiovascular Mortality among US Adults." *American Journal of Epidemiology*, 184(9):621-632 (2016).

- 180 Evenson, K., Wen, F., Hales, D., and **Herring, A.H.** “National Youth Sedentary Behavior and Physical Activity Daily Patterns Using Latent Class Analysis Applied to Accelerometry.” *International Journal of Behavioral Nutrition and Physical Activity*, 13:55, DOI: 10.1186/s12966-016-0382-x (2016).
- 179 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*, doi:10.1007/s10995-016-2090-1 (2016).
- 178 Hoffman, K., Mendez, M., Siega-Riz, A.M., **Herring, A.H.**, Sjodin, A., and Daniels, J.L. “Lactational Exposure to Polybrominated Diphenyl Ethers and its Relation to Early Childhood Anthropometric Measurements.” *Environmental Health Perspectives*, 124(10):1656-1661 (2016).
- 177 Jones*, S.A., Wen, F., **Herring, A.H.**, Evenson, K.R. (2016) “Correlates of US Adult Physical Activity and Sedentary Behavior Patterns.” *Journal of Science and Medicine in Sport*, <http://dx.doi.org/10.1016/j.jsams.2016.03.009> (2016).
- 176 Lee, E.Y., Flynn, M.R., Du, G., Li, Y., Lewis, M.M., **Herring, A.H.**, Van Buren*, E., Van Buren*, S., Kong, L., Fry, R.C., Snyder, A.M., Connor, J.R., Yang, Q., Mailman, R.B., and Huang, X. “Increased R2* in the Caudate Nucleus of Asymptomatic Welders.” *Toxicological Sciences*, 150(2):369-377 (2016).
- 175 Lee, E.Y., Flynn, M.R., Du, G., Lewis, M.M., **Herring, A.H.**, Van Buren*, E., Van Buren*, S., Kong, L., Mailman, R.B., and Huang, X. “Lower Fractional Anisotropy in the Globus Pallidus of Asymptomatic Welders, a Marker for Long-Term Welding Exposure.” *NeuroToxicology*, 153(1):165-173 (2016). (Editor’s Highlight)
- 174 Lewis, M., Flynn, M.R., Lee, E.Y., Van Buren*, S.K., Van Buren*, E., Du, G., Fry, R., **Herring, A.H.**, Kong, L., Mailman, R.B., and Huang, X. “Longitudinal T1 Relaxation Rate (R1) Captures Changes in Estimated Short-Term Mn Exposures in Welders.” *Toxicological Sciences*, 57:39-44 (2016).
- 173 Mordukhovich*, I., Beyea, J., **Herring, A.H.**, Hatch, M., Stellman, S.D., Teitelbaum, S.L., Richardson, D.B., Millikan, R.C., Engel, L.S., Shantakumar, S., Steck, S.E., Neugut, A.I., Rossner, P., Santella, R.M., and Gammon, M.D. “Polymorphisms in DNA Repair Genes, Traffic-Related Polycyclic Aromatic Hydrocarbon Exposure, and Breast Cancer Incidence.” *International Journal of Cancer*, 139(2):310-321 (2016).

- 172 Mordukhovich*, I., Beyea, J., **Herring, A.H.**, Hatch, M., Stellman, S.D., Teitelbaum, S.L., Richardson, D.B., Millikan, R.C., Engel, L.S., Shantakumar, S., Steck, S.E., Neugut, A.I., Rossner, P., Santella, R.M., and Gammon, M.D. “Vehicular Traffic-Related Polycyclic Aromatic Hydrocarbon Exposure and Breast Cancer Incidence: The Long Island Breast Cancer Study Project (LIBCS).” *Environmental Health Perspectives*, to appear.
- 171 Rappazzo*, K., Warren, J.L., Meyer, R.E., **Herring, A.H.**, Sanders, A.P., Brownstein, N.C., and Luben, T.J. “Maternal Residential Exposure to Agricultural Pesticides and Birth Defects in a 2003-2005 North Carolina Birth Cohort.” *Birth Defects Research Part A: Clinical and Molecular Teratology*, 106(4):240-9 (2016).
- 170 Razzaghi, H., Tinker, S.C., **Herring, A.H.**, Howards, P.P., Waller, K., Johnson, C.Y., and the National Birth Defects Prevention Study. “Impact of Missing Data for Body Mass Index in an Epidemiologic Study.” *Maternal and Child Health Journal*, 20(7):1497-1505 (2016).
- 169 Ruma, M.S., Bradley, H., Holstrom, A., Rigdon*, J., and **Herring, A.** “Obstetric Ultrasound Efficiency and Accuracy Using a Protocol-Based Examination.” *Journal of Ultrasound in Medicine*, 35(3):565-569 (2016).
- 168 Smith*, G.S., Van Den Eeden, S.K., Garcia, C., Shan, J., Baxter, R., **Herring, A.H.**, Richardson, D.B., Van Rie, A., Emch, M., and Gammon, M.D. “Air Pollution and Pulmonary Tuberculosis: A Nested Case-Control Study Among Members of a Northern California Health Plan.” *Environmental Health Perspectives*, 124(6):761-768 (2016).
- 167 White*, A.J., Bradshaw, P.T., **Herring, A.H.**, Teitelbaum, S.L., Beyea, J., Stellman, S.D., Steck, S.E., Mordukhovich, I., Engel, S.M., Engel, L.S., Conway, K., Hatch, M., Neugut, A., Santella, R.M., and Gammon, M.D. “Exposure to Multiple Sources of Polycyclic Aromatic Hydrocarbons and Breast Cancer Incidence.” *Environment International*, 89-90:185-192 (2016).
- 166 Wilkinson*, A., Halpern, C.T., and **Herring, A.H.** “Testing Longitudinal Relationships Between Binge Drinking, Marijuana Use, and Depressive Symptoms and Moderation by Sex.” *Journal of Adolescent Health*, 59(6):681-687 (2016).
- 165 Wilkinson*, A., **Herring, A.H.**, and Halpern, C.T. “Directions of the Relationship Between Substance Use and Depressive Symptoms from Adolescence to Young Adulthood.” *Addictive Behaviors*, 60:64-70 (2016).

- 164 Attard*, S., **Herring, A.H.**, Wang, H., Howard, A.G., Thompson, A., Adair, L., Mayer-Davis, E., and Gordon-Larsen, P. "Implications of Iron Deficiency/Anemia on the Classification of Diabetes Using HbA1c." *Nutrition and Diabetes*, 5, e166; doi:10.1038/nutd.2015.16 (2015).
- 163 Attard*, S.M., **Herring, A.H.**, Zhang, B., Du, S.F., Popkin, B.M., and Gordon-Larsen, P. "Associations Between Age, Cohort, and Urbanization with SBP and DBP in China: A Population-Based Study Across 18 Years." *Journal of Hypertension*, 33(5):948-956 (2015).
- 162 Attard*, S., Howard, A.G., **Herring, A.H.**, Zhang, B., Du, S., Aiello, A.E., Popkin, B.M., and Gordon-Larsen, P. "Differential Associations of Urbanicity and Income with Physical Activity in Adults in Urbanizing China: Findings from the Population-Based China Health and Nutrition Survey 1991-2009." *International Journal of Behavioral Nutrition and Physical Activity*, 12:152 (2015).
- 161 Dong*, F., Howard, A.G., **Herring, A.H.**, Popkin, B.M., Gordon-Larsen, P. "White Rice Intake Varies in Its Association with Metabolic Markers of Diabetes and Dyslipidemia Across Region Among Chinese Adults." *Annals of Nutrition and Metabolism*, 66(4): 209-218 (2015).
- 160 Evenson, K.R., Wen, F., **Herring, A.H.**, Di, C., LaMonte, M.J., Tinker, L.F., Lee, I., Rillamas-Sun, E., LaCroix, A.Z., and Buchner, D.M. "Calibrating Physical Activity Intensity for Hip-Worn Accelerometry in Women Age 60 to 91 Years: The Women's Health Initiative OPACH Calibration Study." *Preventive Medicine Reports*, 2:750-756 (2015).
- 159 Evenson, K.R., Wen, F., Metzger, J.S., and **Herring, A.H.**. "Physical Activity and Sedentary Behavior Patterns Using Accelerometry from a National Sample of United States Adults." *International Journal of Behavioral Nutrition and Physical Activity*, 12:20 (2015).
- 158 Laine*, J.E., Bailey, K.A., Rubio-Andrade, M., Olshan, A.F., Smeester, L., Drobna, Z., **Herring, A.H.**, Styblo, M., Garcia-Vargas, G.G., and Fry, R.C. "Maternal Arsenic Exposure, Arsenic Methylation Efficiency, and Birth Outcomes in the Biomarkers of Exposure to Arsenic (BEAR) Pregnancy Cohort in Mexico." *Environmental Health Perspectives*, 123(2):186-192 (2015).
- 157 Laughon, M.M., Chantala, K., Aliaga, S., **Herring, A.H.**, Hornik, C.P., Hughes, R., Clark, R.H., and Smith, P.B. "Diuretic Exposure in Premature Infants from 1997 to 2011." *American Journal of Perinatology*, 32(1):49-55 (2015).
- 156 Lee, E.-Y., Flynn, M.R., Du, G., Lewis, M.M., Fry, R., **Herring, A.H.**, Smeester, L., Van Buren*, E., Van Buren*, S., Kong, L., Yang,

- Q., and Huang, X. “T1 Relaxation Rate (R1) Indicates Non-Linear Mn Accumulation in Brain Tissue of Welders with Low-Level Exposure.” *Toxicological Sciences*, 146(2):281-289 (2015).
- 155 Nethery*, R.C., Warren, J.L., **Herring, A.H.**, Moore, K.A.B., Evenson, K.R., and Diez-Roux, A.V. “A Common Spatial Factor Analysis Model for Measured Neighborhood-Level Characteristics: The Multi-Ethnic Study of Atherosclerosis.” *Health and Place*, 36:35-46 (2015).
- 154 Paynter*, L., Koehler, E., Howard, A.G., **Herring, A.H.**, and Gordon-Larsen, P. “Characterizing Long-Term Patterns of Weight Change in China using Latent Class Trajectory Modeling.” *PLOS ONE*, 10(2) (2015).
- 153 Smith*, G.S., Van Den Eeden, S.K., Baxter, R., Shan, J., Van Rie, A., **Herring, A.H.**, Richardson, D.B., Emch, M., and Gammon, M.D. “Cigarette Smoking and Pulmonary Tuberculosis in Northern California.” *Journal of Epidemiology and Community Health*, 69(6):568-573 (2015).
- 152 Strutz*, K.L., **Herring, A.H.**, and Halpern, C.T. “Health Disparities Among Young Adult Sexual Minorities in the US.” *American Journal of Preventive Medicine*, 48(1):76-88 (2015).
- 151 Tucker*, C.M., Berrien, K., Menard, M.K., **Herring, A.H.**, Daniels, J., Rowley, D.L., and Halpern, C.T. “Predicting Preterm Birth Among Women Screened by North Carolina’s Pregnancy Medical Home Program.” *Maternal and Child Health Journal*, 19(11):2438-2452 (2015).
- 150 Vladutiu, C., Evenson, K., Jukic, A. and **Herring, A.H.** “Correlates of Self-Reported Physical Activity at 3 and 12 Months Postpartum.” *Journal of Physical Activity and Health*, 12(6), 814-822 (2015).
- 149 Dobson, N., Patel, R., Smith, P., Kuehn, D., Clark*, J., Vyas-Read, S., **Herring, A.H.**, Laughon, M., Carlton, D. and Hunt, C. (2014). “Trends in Caffeine Use and Association Between Clinical Outcomes and Timing of Therapy in Very Low Birth Weight Infants.” *Journal of Pediatrics*, 164(5), 992-998.
- 148 Evenson K.R., Calhoun, K.C., **Herring, A.H.**, Pritchard*, D., Wen, F., and Steiner, A.Z. “Association of Physical Activity in the Past Year and Immediately After In Vitro Fertilization on Pregnancy.” *Fertility and Sterility*, 101(4):1047-1054 (2014).
- 147 Goldberg*, S.K., Haydon, A.A., **Herring, A.H.**, and Halpern, C.T. “Longitudinal Consistency in Self-Reported Age of First Vaginal Intercourse Among Young Adults.” *Journal of Sex Research*, 51(1):97-106 (2014).

- 146 Gordon-Larsen, P., Koehler*, E., Howard, A.G., Paynter*, L., Thompson, A., Adair, L., Mayer-Davis, E., Zhang, B., Popkin, B., and **Herring, A.H.** "Eighteen Year Weight Trajectories and Metabolic Markers of Diabetes in Modernising China." *Diabetologica*, 57(9):1820-1829 (2014).
- 145 Haydon*, A.A., Cheng, M.M., **Herring, A.H.**, McRee, A.-L., and Halpern, C.T. "Prevalence and Predictors of Sexual Inexperience in Adulthood." *Archives of Sexual Behavior*, 43:221-230 (2014).
- 144 Lehnart, P.M., Nguyen, T. Wise*, A., Caron, K.M., **Herring, A.H.**, and Stuebe, A.M. "Adrenomedullin Signaling Pathway Polymorphisms and Adverse Pregnancy Outcomes." *American Journal of Perinatology*, 31(4):327-333 (2014).
- 143 O'Brien*, K.M., Cole, S.R., Engel, L.S., Bensen, J.T., Poole, C., **Herring, A.H.**, and Millikan, R.C. "Breast Cancer Subtypes and Previously Established Genetic Risk Factors: A Bayesian Approach." *Cancer Epidemiol Biomarkers Prev.*, 23(1), 84-97 (2014).
- 142 O'Brien*, K.M., Cole, S.R., Poole, C., Bensen, J.T., **Herring, A.H.**, Engel, L.S., and Millikan, R.C. "Replication of Breast Cancer Susceptibility Loci in Whites and African Americans Using a Bayesian Approach." *American Journal of Epidemiology*, 179(3):382-94 (2014).
- 141 Reese*, B.M., Choukas-Bradley, S.*, **Herring, A.H.**, and Halpern, C.T. "Correlates of Adolescent and Young Adult Sexual Initiation Patterns." *Perspectives on Sexual and Reproductive Health*, 46(4):211-221 (2014).
- 140 Sanders*, A.P., Desrosiers, T.A., Warren, J.L., **Herring, A.H.**, Enright, D., Olshan, A.F., Meyer, R.E., and Fry, R.C. "Association Between Arsenic, Cadmium, Manganese, and Lead Levels in Private Wells and Birth Defects Prevalence in North Carolina: A Semi-Ecologic Study." *BMC Public Health*, 14:955 (2014).
- 139 Steiner, A.Z., Pritchard*, D.A., Young, S.L., and **Herring, A.H.** "Peri-implantation Intercourse Lowers Fecundability." *Fertility and Sterility*, 102(1):178-182 (2014).
- 138 Stingone*, J.A., Luben, T.J., Daniels, J.L., Fuentes, M., Richardson, D.B., Aylsworth, A.S., **Herring, A.H.**, Anderka, M., Botto, L., Correa, A., Gilboa, S.M., Langlois, P.H., Mosley, B., Shaw, G.M., Siffel, C., and Olshan, A.F. "Maternal Exposure to Criteria Air Pollutants and Congenital Heart Defects in Offspring: Results from the National Birth Defects Prevention Study." *Environmental Health Perspectives*, 122(9):863-872 (2014).

- 137 Stuebe, A.M., Wise, A., Nguyen, T., **Herring, A.**, North, K.E., and Siega-Riz, A.M. "Maternal Genotype and Gestational Diabetes." *American Journal of Perinatology*, 31(1):68-76 (2014).
- 136 Warren, J.L., Luben, T.J., Sanders*, A.P., Brownstein*, N.C., **Herring, A.H.**, and Meyer, R.E. "An Evaluation of Metrics for Assessing Maternal Exposure to Agricultural Pesticides." *Journal of Exposure Science and Environmental Epidemiology*, 24(5):497-503 (2014).
- 135 Wyss*, A.B., Weissler, M.C., Avery, C.L., **Herring, A.H.**, Bensen, J.T., Barnholtz-Sloan, J.S., Funkhouser, W.K., and Olshan, A.F. "Single Nucleotide Polymorphisms in Nucleotide Excision Repair Genes, Cancer Treatment, and Head and Neck Cancer Survival." *Cancer Causes and Control*, 25(4):437-450 (2014).
- 134 Attard*, S.M., **Herring, A.H.**, Howard, A.G., and Gordon-Larsen, P. "Longitudinal Trajectories of BMI and Cardiovascular Disease Risk: The National Longitudinal Study of Adolescent Health." *Obesity*, 21(11):2180-2188 (2013).
- 133 Cusack, K.J., **Herring, A.H.**, and Steadman, H.J. "PTSD as a Mediator Between Lifetime Sexual Abuse and Substance Use Among Jail Diversion Participants." *Psychiatric Services*, 64(8):776-781 (2013).
- 132 Demissie*, Z., Siega-Riz, A., Evenson, K., **Herring, A.H.**, Dole, N., and Gaynes, B. "Physical Activity During Pregnancy and Postpartum Depressive Symptoms." *Midwifery*, 29(2):139-47 (2013).
- 131 Evans-Hoeker, E., Pritchard*, D.A., Long*, D.L., **Herring, A.H.**, Stanford, J.B., and Steiner, A.Z. "Cervical Mucus Monitoring Prevalence and Associated Fecundability in Women Trying to Conceive." *Fertility and Sterility*, 100(4):1033-1038 (2013).
- 130 Goldberg*, S., Strutz, K., **Herring, A.H.**, and Halpern, C.T. "Risk of Substance Abuse and Dependence Among Young Adult Sexual Minority Groups Using a Multidimensional Measure of Sexual Orientation." *Public Health Reports*, 128(3):144-152 (2013).
- 129 Gordon-Larsen, P., Adair, L.S., Meigs, J.B., Mayer-Davis, E., **Herring, A.H.**, Yan, S.K., Zhang, B., Shufa, D., Popkin, B.M. "Discordant Risk: Overweight and Cardiometabolic Risk in Chinese Adults." *Obesity*, 21(1):E166-74 (2013).
- 128 Hakenewerth*, A.M., Millikan, R.C., Rusyn, I., **Herring, A.H.**, Weissler, M.C., Funkhouser, W.K., North, K.E., Barnholtz-Sloan, J.S., Olshan, A.F. "Effects of Polymorphisms in Alcohol Metabolism and Oxidative Stress Genes on Survival from Head and Neck Cancer" *Cancer Epidemiology*, 37(4), 479-491 (2013).

- 127 **Herring, A.H.**, Attard*, S.M., Gordon-Larsen, P., Joyner, W.H., and Halpern, C.T. “Like a Virgin (Mother): Analysis of Data from a Longitudinal, U.S. Population Representative Sample Survey.” *British Medical Journal*, 347:f7102 (2013).
- 126 Hornik*, C.P., **Herring, A.H.**, Benjamin, D.K., Capparelli, E.V., Kearns, G.L., van den Anker, J., Cohen-Wolkowicz, M., Clark, R.H., and Smith, P.B. on behalf of the Best Pharmaceuticals for Children Act - Pediatric Trials Network. “Adverse Events Associated with Meropenem Versus Imipenem/Cilastatin Therapy in a Large Retrospective Cohort of Hospitalized Infants.” *The Pediatric Infectious Disease Journal*, 32(7):748-53(2013).
- 125 Khoshbin, S., **Herring, A.H.**, Holmes, G.L., Schomer, D., Hoch, D., Dooling, E.C., Vining, E.P.G., and Holmes, L.B. “Inter-Rater Agreement for Diagnoses of Epilepsy in Pregnant Women.” *Epilepsy and Behavior*, 27(1):148-153 (2013).
- 124 Lee, J.H., Hornik, C.P., Benjamin, D.K., **Herring, A.H.**, Clark, R.H., Cohen-Wolkowicz, M., and Smith, P.B. “Risk Factors for Invasive Candidiasis in Infants >1500g Birth Weight.” *The Pediatric Infectious Disease Journal*, 32(3):222-226 (2013).
- 123 Meng, Q.Y., Richmond-Bryant, J., Lu, S.E., Buckley, B., Welsh, W.J., Whitsel, E.A., Hanna, A., Yeatts, K.B., Warren, J., **Herring, A.H.**, and Xiu, A.J. “Cardiovascular Outcomes and the Physical and Chemical Properties of Metal Ions Found in Particulate Matter Air Pollution: A QICAR Study.” *Environmental Health Perspectives*, 121(5):558-564 (2013).
- 122 Reese*, B.R., Haydon, A.A., **Herring, A.H.**, and Halpern, C.T. “The Association between Sequences of Sexual Initiation and the Likelihood of Teenage Pregnancy.” *Journal of Adolescent Health*, 52(2):228-233 (2013).
- 121 Slining*, M., **Herring, A.H.**, Popkin, B., Mayer-Davis, E.J., and Adair, L.S. “Infant BMI Trajectories are Associated with Young Adult Body Composition.” *Journal of Developmental Origins of Health and Disease*, 4(1):56-68 (2013).
- 120 Sotres-Alvarez, D., Siega-Riz, A.M., **Herring, A.H.**, Carmichael, S.L., Feldkamp, M.L., Hobbs, C.A., and Olshan, A.F. “Maternal Dietary Patterns Are Associated with Risk of Neural Tube and Congenital Heart Defects.” *American Journal of Epidemiology*, 177(11):1279-1288 (2013).

- 119 Steiner, A.Z., Long*, D.L., **Herring, A.H.**, Kesner, J.S., Meadows, J.W., and Baird, D.D. "Urinary Follicle Stimulating Hormone as a Measure of Fecundity in a Community Cohort." *Reproductive Sciences*, 20(5):549-556 (2013).
- 118 Warren*, J.L., Fuentes, M., **Herring, A.H.**, and Langlois, P. "Air Pollution Metric Analysis While Determining Susceptible Periods of Pregnancy for Low Birth Weight." *ISRN Obstetrics and Gynecology*, Volume 2013, Article ID 387452 (2013).
- 117 Wyss*, A.B., **Herring, A.H.**, Avery, C.L., Weissler, M.C., Bensen, J.T., Barnholtz-Sloan, J.S., Funkhouser, W.K., and Olshan, A.F. Single-Nucleotide Polymorphisms in Nucleotide Excision Repair Genes, Cigarette Smoking, and the Risk of Head and Neck Cancer." *Cancer Epidemiology, Biomarkers, and Prevention*, 22:1428-1445 (2013).
- 116 Attard*, S., **Herring, A.H.**, Mayer-Davis, E.J., Popkin, B.M., Meigs, J.B., Gordon-Larsen, P. "Multilevel Examination of Diabetes in Modernizing China: What Elements of Urbanization Are Most Associated with Diabetes?" *Diabetologia*, 55(12):3182-3192 (2012).
- 115 Buckley*, J.P., Palmieri, R.T., Matuszewski, J.M., **Herring, A.H.**, Baird, D.D., Hartmann, K.E., and Hoppin, J.A. "Consumer Product Exposures Associated with Urinary Phthalate Levels in Pregnant Women." *Journal of Exposure Science and Environmental Epidemiology*, 22:468-475 (2012).
- 114 Deierlein*, A., Siega-Riz, A., **Herring, A.H.**, Adair, L., and Daniels, J. "Gestational Weight Gain and Predicted Changes in Offspring Anthropometrics Between Early Infancy and 3 Years." *Pediatric Obesity*, 7(2):134-142 (2012).
- 113 Desrosiers*, T.A., **Herring, A.H.**, Shapira, S.K., Hooiveld, M., Luben, T.J., Herdt-Losavio, M.L., Lin, S., Olshan, A.F. "Paternal Occupation and Birth Defects: Findings from the National Birth Defects Prevention Study." *Occupational and Environmental Medicine*, 69(8):534-542 (2012).
- 112 Evenson, K.R., **Herring, A.H.**, and Wen, M. "Self-Reported and Objectively Measured Physical Activity Among a Cohort of Postpartum Women: The PIN Postpartum Study." *Journal of Physical Activity and Health*, 9(1):5-20 (2012).
- 111 Griffin*, J.B., Lokomba, V., Landis, S.H., Thorp, J.M., **Herring, A.H.**, Tshefu, A.K., Rogerson, S.J., and Meshnick, S.R. "Plasmodium Falciparum Parasitaemia in the First Half of Pregnancy, Uterine and Umbilical Artery Blood Flow, and Foetal Growth: A Longitudinal Doppler Ultrasound Study." *Malaria Journal*, 11(319), (2012).

- 110 Haydon*, A.A., **Herring, A.H.**, and Halpern, C.T. "Associations Between Patterns of Emerging Sexual Behavior and Young Adult Reproductive Health." *Perspectives on Sexual and Reproductive Health*, 44(4):214-227 (2012).
- 109 Haydon*, A.A., **Herring, A.H.**, Prinstein, M., and Halpern, C.T. "Beyond Age at First Sex: Patterns of Emerging Sexual Behavior in Adolescence and Young Adulthood." *Journal of Adolescent Health*, 50(5):456-463 (2012).
- 108 Jukic*, A.M.Z., Daniels, J.L., **Herring, A.H.**, Wilcox, A.J., and Hartmann, K.E. "A Prospective Study of the Association Between Vigorous Physical Activity During Pregnancy and Length of Gestation and Birthweight." *Maternal and Child Health Journal*, 16(5):1031-44 (2012).
- 107 Jukic*, A.M.Z., Evenson, K.R., **Herring, A.H.**, Wilcox, A.J., Hartmann, K.E., and Daniels, J.L. "Correlates of Physical Activity at Two Time Points During Pregnancy." *Journal of Physical Activity and Health*, 9(3):325-335 (2012).
- 106 Keim*, S.A., Daniels, J.L., Dole, N., Scheidt, P., **Herring, A.H.**, and Siega-Riz, A.M. "Depressive Symptoms During Pregnancy and the Concentration of Fatty Acids in Breast Milk." *Journal of Human Lactation*, 28(2):189-195 (2012).
- 105 Keim*, S.A., Daniels, J.L., Siega-Riz, A.M., **Herring, A.H.**, Dole, N., and Scheidt, P.C. (2012). "Long-Chain Polyunsaturated Fatty Acid Intake in Breast Milk and Formula and Infant Cognitive Development: An Observational Study." *Maternal and Child Nutrition*, 8(4):471-482.
- 104 Mehta*, U.J., Siega-Riz, A.M., **Herring, A.H.**, Adair, L., and Bentley, M. (2012). "Pregavid Body Mass Index is Associated with Early Introduction of Complementary Foods." *Journal of the Academy of Nutrition and Dietetics*, 112(9):1374-1379.
- 103 Mehta*, U.J., Siega-Riz, A.M., **Herring, A.H.**, Adair, L.S., and Bentley, M.E. (2012). "Pregavid Body Mass Index, Psychological Factors During Pregnancy and Breastfeeding Duration: Is There a Link?" *Maternal and Child Nutrition*, 8(4):423-433.
- 102 Myers*, S.L., Baird, D.D., Olshan, A.F., **Herring, A.H.**, Schroeder, J.C., Nylander-French, L.A., and Hartmann, K.E. "Self-Report Versus Ultrasound Measurement of Uterine Fibroid Status." *Journal of Women's Health*, 21(3):285-293 (2012).
- 101 Sanders*, A.P., Flood, K., Chiang, S., **Herring, A.H.**, Wolf, L., and Fry, R.C. (2012). "Towards Prenatal Biomonitoring in North Carolina:

Assessing Arsenic, Cadmium, Mercury, and Lead Levels in Pregnant Women.” *PLOS One*, 7(3), e31354 DOI: 10.1371/journal.pone.0031354.

- 100 Savitz, D.A., Harmon, Q., Siega-Riz, A.M., **Herring, A.H.**, Dole, N., and Thorp, J. “Behavioral Influences on Preterm Birth: Integrated Analysis of the Pregnancy, Infection, and Nutrition Study.” *Maternal and Child Health Journal*, 16(6):1151-63 (2012).
- 99 Steiner, A.Z., Long*, D.L., Tanner, C., and **Herring, A.H.** “Impact of Vaginal Lubricants on Natural Fertility.” *Obstetrics and Gynecology*, 120(1):44-51 (2012).
- 98 Chan*, R.L., Olshan, A.F., Savitz, D.A., **Herring, A.H.**, Daniels, J.L., Peterson, H.B., and Martin, S.L. “Maternal Influences on Nausea and Vomiting in Early Pregnancy.” *Maternal and Child Health Journal*, 15(1):122-127 (2011).
- 97 Deierlein*, A.L., Siega-Riz, A.M., Adair, L.S., and **Herring, A.H.** “Effects of Pre-Pregnancy Body Mass Index and Gestational Weight Gain on Infant Anthropometric Outcomes.” *Journal of Pediatrics*, 158(2): 221-226 (2011).
- 96 Deierlein*, A.L., Siega-Riz, A.M., Chantala, K., and **Herring, A.H.** “The Association Between Maternal Glucose Tolerance Status and Child Weight Status at Age 3,.’ *Diabetes Care*, 34(2):480-484 (2011).
- 95 Demissie*, Z., Siega-Riz, A.M., Evenson, K., Dole, N., **Herring, A.H.**, and Gaines, B.N. “Associations Between Physical Activity and Postpartum Depressive Symptoms.” *Journal of Women’s Health*, 20(7):1025-1034 (2011).
- 94 Demissie*, Z., Siega-Riz, A.M., Evenson, K., Dole, N., **Herring, A.H.**, and Gaines, B.N. “Physical Activity and Depressive Symptoms among Pregnant Women: The PIN3 Study.” *Journal of Women’s Mental Health*, 14(2):145-157 (2011).
- 93 Eichelberger, K.Y., Haeri, S., Kessler*, D.C., Swartz, A., **Herring, A.**, Wolfe, H.M. “Placenta Previa in the Second Trimester: Sonographic and Clinical Factors Associated with its Resolution.” *American Journal of Perinatology*, 28(9):735-739 (2011).
- 92 Hakenwerth, A.M.*, Millikan, R.C., Rusyn, I., **Herring, A.H.**, North, K.E., Barnholtz-Sloah, J.S., Funkhouser, W.F., Weissler, M.C., and Olshan, A.F. “Joint Effects of Alcohol Consumption and Polymorphisms in Alcohol and Oxidative Stress Metabolism Genes on Risk of Head and Neck Cancer.” *Cancer Epidemiology Biomarkers and Prevention*, 20(11):2438-2449 (2011).

- 91 Horton, B.J.*, Luben, T.J., **Herring, A.H.**, Savitz, D.A., Singer, P.C., Weinberg, H.S., and Hartmann, K.E. “The Effect of Water Disinfection By-products on Pregnancy Outcomes in Two Southeastern U.S. Communities.” *Journal of Occupational and Environmental Medicine*, 53(10):1172-1178 (2011).
- 90 Keim S.A.*, Daniels, J.L., Dole, N., **Herring, A.H.**, Siega-Riz, A.M., Scheidt, P.C. “A Prospective Study of Maternal Anxiety, Perceived Stress, and Depressive Symptoms in Relation to Infant Cognitive Development.” *Early Human Development*, 87(5):373-80 (2011).
- 89 Lukes, A.S., McBride*, R.J., **Herring, A.H.**, Fried, M., Sherwani, A., and Dell, D. “Improved Premenstrual Syndrome Symptoms After NovaSure Endometrial Ablation.” *Journal of Minimally Invasive Gynecology*, 18(5):607-611 (2011).
- 88 Mehta, U.J.*, Siega-Riz, A.M., and **Herring, A.H.** “Effect of Body Image on Pregnancy Weight Gain.” *Maternal and Child Health Journal*, 15(3):324-332 (2011).
- 87 Mehta*, U., Siega-Riz, A.M., **Herring, A.H.**, Adair, L.S., and Bentley, M.E. “Maternal Obesity, Psychological Factors and Breastfeeding Initiation.” *Breastfeeding Medicine*, 6(6):369-376 (2011).
- 86 Nowicki, E.*, Siega-Riz, A.M., **Herring, A.H.**, He, K., Stuebe, A., Olshan, A.F. “Predictors of Measurement Error in Energy Intake During Pregnancy.” *American Journal of Epidemiology*, 173:560-568 (2011).
- 85 Pennell, A., Salo-Coombs, V., **Herring, A.**, Spielman, F., and Fecho, K. “Anesthesia and Analgesia-Related Preferences and Outcomes of Women Who Have Birth Plans.” *Journal of Midwifery and Women’s Health*, 56(4):376-381 (2011).
- 84 Ribisl, K.M, Williams, R.S., Gizlice, Z., and **Herring, A.H.** “Effectiveness of State and Federal Government Agreements with Major Credit Card and Shipping Companies to Block Illegal Internet Cigarette Sales.” *PLOS ONE*, 6(2):e16754 (2011).
- 83 Savitz, D.A., Stein, C.R., Siega-Riz, A.M., and **Herring, A.H.** “Gestational Weight Gain and Birth Outcome in Relation to Prepregnancy Body Mass Index and Ethnicity.” *Annals of Epidemiology*, 21(2):78-85 (2011).
- 82 Steiner, A.Z., **Herring, A.H.**, Kesner, J.S., Meadows, J.W., Stanczyk, F.Z., Hoberman*, S., and Baird, D.D. “Antimullerian Hormone as a Predictor of Natural Fecundability in Women Aged 30-42 Years.” *Obstetrics and Gynecology*, 117(4):798-804 (2011).

- 81 Weiss, Harold B., Sauber-Schatz, E.K., and **Herring, A.H.** “Motor-Vehicle Crashes During Pregnancy: A Retrospective Cohort Study.” *Open Journal of Obstetrics and Gynecology*, 1(4):202-207 (2011).
- 80 Borodulin, K., Evenson, K.R., Monda, K., **Herring, A.H.**, and Dole, N. “Physical Activity and Sleep in Pregnant Women.” *Paediatric and Perinatal Epidemiology*, 24(1):45-52 (2010).
- 79 Carmichael, S.L., **Herring, A.H.**, Sjödin, A., Jones, R., Needham, L., Ma, C., Ding*, K., and Shaw, J.M. “Hypospadias and Halogenated Organic Pollutant Levels in Maternal Mid-Pregnancy Serum Samples.” *Chemosphere*, 80(6):641-646 (2010).
- 78 Chan*, R.L., Olshan, A.F., Savitz, D.A., **Herring, A.H.**, Daniels, J.L., Martin, S.L., Peterson, H.B., and Hartmann, K.E. “Severity and Duration of Nausea and Vomiting Symptoms in Early Pregnancy and Spontaneous Abortion.” *Human Reproduction*, 25(11):2907-2912 (2010).
- 77 Cusack, K.J., Steadman, H.J., and **Herring, A.H.** “Perceived Coercion Among Jail Diversion Participants in a Multisite Study.” *Psychiatric Services*, 61(9):911-916 (2010).
- 76 Ferrari, R.M., Siega-Riz, A.M., Evenson, K.R., Moos, M.K., Melvin, C.L., and **Herring, A.H.** “Provider Advice About Weight Loss and Physical Activity in the Postpartum Period.” *Journal of Women’s Health*, 19(3):397-406 (2010).
- 75 Hasan, R.* , Baird, D.D., **Herring, A.H.**, Olshan, A.F., Funk, M.L.J., Hartmann, K.E. “Patterns and Predictors of Vaginal Bleeding in the First Trimester of Pregnancy.” *Annals of Epidemiology*, 20(7):524-531 (2010).
- 74 Hasan R.* , Funk, M.L.J., **Herring, A.H.**, Olshan, A.F., Hartmann, K.E., and Baird, D.D. “Accuracy of Reporting Bleeding During Pregnancy.” *Paediatric and Perinatal Epidemiology*, 24(1):31-34 (2010).
- 73 Janevic, T.* , Borrell, L.N., Savitz, D.A., **Herring, A.H.**, and Rundle, A. “Neighbourhood Food Environment and Gestational Diabetes in New York City.” *Paediatric and Perinatal Epidemiology*, 24(3):249-254 (2010).
- 72 Janevic, T.* , Stein, C.R., Savitz, D.A., Kaufman, J.S., Mason, S.M., and **Herring, A.H.** “Neighborhood Deprivation and Adverse Birth Outcomes Among Diverse Ethnic Groups.” *Annals of Epidemiology*, 20(6):445-451 (2010).
- 71 Laughlin, S.K., **Herring, A.H.**, Savitz, D.A., Olshan, A.F., Fielding, J.R., Hartmann, K.E., and Baird, D.D. “Pregnancy-Related Fibroid Reduction.” *Fertility and Sterility*, 94(6):2421-2423 (2010).

- 70 Olshan, A.F., Luben, T.J., Hanley, N.M., Perreault, S.D., Chan*, R.L., **Herring, A.H.**, Basta, P.V., and DeMarini, D.M. "Preliminary Examination of Polymorphisms of GSTM1, GSTT1, and GSTZ1 in Relation to Semen Quality." *Mutation Research*, 688(210):41-46 (2010).
- 69 Pan, I.J.*, Daniels, J.L., **Herring, A.H.**, Rogan, W.J., Siega-Riz, A.M., Goldman, B.D., and Sjodin, A. "Lactational Exposure to Polychlorinated Biphenyls, Dichlorodiphenyltrichloroethane, and Dichlorodiphenyldichloroethylene and Infant Growth: An Analysis of the Pregnancy, Infection, and Nutrition Babies Study." *Paediatric and Perinatal Epidemiology*, 24(3):262-271 (2010).
- 68 Siega-Riz, A.M., **Herring, A.H.**, Carrier, K., Evenson, K., Dole, N., Deierlein*, A. "Sociodemographic, Perinatal, Behavioral, and Psychosocial Predictors of Weight Retention at 3 and 12 months Postpartum." *Obesity*, 18(10):1996-2003 (2010).
- 67 Sotres-Alvarez, D.*, **Herring, A.H.**, and Siega-Riz, A.M. "Latent Class Analysis is Useful to Classify Women into Dietary Patterns." *Journal of Nutrition*, 140(12):2253-2259 (2010).
- 66 Stuebe, A.M., Lyon, H., **Herring, A.H.**, Wise*, A., Ghosh, J., North, K., Siega-Riz, A.M. "Obesity and Diabetes Genetic Variants Associated with Gestational Weight Gain." *American Journal of Obstetrics and Gynecology*, 203:283.e1-17 (2010).
- 65 Borodulin, K., Evenson, K.R., and **Herring, A.H.** "Physical Activity Patterns During Pregnancy Through Postpartum." *BMC Women's Health*, 9:32 (2009).
- 64 Evenson, K.R., Sotres-Alvarez, D., **Herring, A.H.**, Messer, L., Laraia, B.A., and Rodriguez, D. "Assessing Urban and Rural Neighborhood Characteristics Using Audit and GIS Data: Derivation and Reliability of Constructs." *International Journal of Behavioral Nutrition and Physical Activity*, 6:44 (2009).
- 63 Fent, K.W.*, Gaines, L.G., Thomasen, J., Flack, S., Ding, K., **Herring, A.H.**, Whittaker, S., and Nylander-French, L.A. "Quantification and Statistical Modeling-Part I: Breathing-Zone Concentrations of Monomeric and Polymeric 1,6-Hexamethylene Diisocyanate." *Annals of Occupational Hygiene*, 53(7):677-689 (2009).
- 62 Fent, K.W.*, Gaines, L.G., Thomasen, J., Flack, S., Ding, K., **Herring, A.H.**, Whittaker, S., and Nylander-French, L.A. "Quantification and Statistical Modeling-Part II: Dermal Concentrations of Monomeric and Polymeric 1,6-Hexamethylene Diisocyanate." *Annals of Occupational Hygiene*, 53(7):691-702 (2009).

- 61 Forssen, U.M., Wright, J.M., **Herring, A.H.**, Savitz, D.A., Nieuwenhuijsen, M.J., and Murphy, P.A. "Variability and Predictors of Changes in Water Use During Pregnancy." *Journal of Exposure Science and Environmental Epidemiology*, 19(6):593-602 (2009).
- 60 Harville, E.W.*, Savitz, D.A., Dole, N., **Herring, A.H.**, and Thorp, J.M. "Stress Questionnaires and Stress Biomarkers During Pregnancy." *Journal of Women's Health*, 18(9):1425-1433 (2009).
- 59 Hasan, R.*, Baird, D.D., **Herring, A.H.**, Olshan, A.F., Funk, M.L.J., and Hartmann, K.E. "Association Between First-Trimester Vaginal Bleeding and Miscarriage." *Obstetrics and Gynecology*, 114(4):860-867 (2009).
- 58 Hasan, R.*, Olshan, A.F., **Herring, A.H.**, Savitz, D.A., Siega-Riz, A.M., and Hartmann, K.E. "Self-Reported Vitamin Supplementation in Early Pregnancy and Risk of Miscarriage." *American Journal of Epidemiology*, 169(11):1312-1318 (2009).
- 57 Laughlin, S.K., Baird, D.D., Savitz, D.A., **Herring, A.H.**, and Hartmann, K.E. "Prevalence of Uterine Leiomyomas in the First Trimester of Pregnancy: An Ultrasound-Screening Study." *Obstetrics and Gynecology*, 113(3):630-635 (2009).
- 56 Pan, I.J.*, Daniels, J.L., Goldman, B.D., **Herring, A.H.**, Siega-Riz, A.M., and Rogan, W.J. "Lactational Exposure to Polychlorinated Biphenyls, Dichlorodiphenyltrichloroethane, and Dichlorodiphenyldichloroethylene and Infant Neurodevelopment: An Analysis of the Pregnancy, Infection, and Nutrition Babies Study." *Environmental Health Perspectives*, 117(3):488-494 (2009).
- 55 Ruma, M.S., Swartz, A.E., Kim*, E., **Herring, A.H.**, Menard, M.K., and Moise, K.J. "Angle Correction Can Be Used to Measure the Peak Systolic Velocity in the Fetal Middle Cerebral Artery." *American Journal of Obstetrics and Gynecology*, 200(4):397.e1 (2009).
- 54 Siega-Riz, A.M., **Herring, A.H.**, Olshan, A.F., Smith, J., Moore, C., and the National Birth Defects and Prevention Study. "The Joint Effects of Maternal Prepregnancy Body Mass Index and Age on the Risk of Gastroschisis." *Paediatric and Perinatal Epidemiology*, 23(1):51-57 (2009).
- 53 Spriggs, A.L.*, Halpern, C.T., **Herring, A.H.**, Schoenbach, V.J. "Family and School Socioeconomic Disadvantage: Interactive Influences on Adolescent Dating Violence Victimization." *Social Science and Medicine*, 68:1956-65 (2009).

- 52 Stein, C.R.*, Savitz, D.A., Janevic, T., Ananth, C.V., Kaufman, J.S., **Herring, A.H.**, and Engel, S.M. "Maternal Ethnic Ancestry and Adverse Perinatal Outcomes in New York City." *American Journal of Obstetrics and Gynecology*, 201(6):584.e1-9 (2009).
- 51 Swartz, A.E., Ruma, M.S., Kim*, E., **Herring, A.H.**, Menard, M.K., and Moise, K.J. "The Effects of Fetal Heart Rate on Peak Systolic Velocity of the Middle Cerebral Artery: Does Heart Rate Matter?" *Obstetrics and Gynecology*, 113(6):1225-1229 (2009).
- 50 Witt, M.U., Joy, S.D., Clark*, J., **Herring, A.H.**, Bowes, W., and Thorp, J.M. "Cervicoisthmic Cerclage: Transabdominal Versus Transvaginal Approach." *American Journal of Obstetrics and Gynecology*, 201(1):105.e1 (2009).
- 49 Baker, A.M., Braun*, J.M., Salafia, C.M., **Herring, A.H.**, Daniels, J., Rankins, N., and Thorp, J.M. "Risk Factors for Uteroplacental Vascular Compromise and Inflammation." *American Journal of Obstetrics and Gynecology*, 199(256):e1-e9 (2008).
- 48 Borodulin, K., Evenson, K.R., Wen, F., **Herring, A.H.**, and Benson, A. "Physical Activity Patterns During Pregnancy." *Medicine and Science in Sports and Exercise*, 40(11):1901-1908 (2008).
- 47 Deierlein, A.L.*, Siega-Riz, A.M., **Herring, A.H.** "Dietary Energy Density but Not Glycemic Load Is Associated with Gestational Weight Gain." *American Journal of Clinical Nutrition*, 88:693-9 (2008).
- 46 Harville, E.W.*, Savitz, D.A., Dole, N., **Herring, A.H.**, Thorp, J.M., Light, K.C. "Stress and Placental Resistance Measured by Doppler Ultrasound." *Ultrasound in Obstetrics and Gynecology*, 32(1):23-30 (2008).
- 45 Hoffman, C.S.*, Mendola, P., Savitz, D.A., **Herring, A.H.**, Loomis, D., Hartmann, K.E., Singer, P.C., Weinberg, H.S., and Olshan, A.F. "Drinking Water Disinfection By-Product Exposure and Duration of Gestation." *Epidemiology*, 19:738-746 (2008).
- 44 Hoffman, C.S.*, Mendola, P., Savitz, D.A., **Herring, A.H.**, Loomis, D., Hartmann, K.E., Singer, P.C., Weinberg, H.S., and Olshan, A.F. "Drinking Water Disinfection By-Product Exposure and Fetal Growth." *Epidemiology*, 19:729-737 (2008).
- 43 Hoffman, C.S.*, Messer, L., Mendola, P., Savitz, D.A., **Herring, A.H.**, and Hartmann, K.E. "Comparison of Gestational Age at Birth Based on Last Menstrual Period and Ultrasound During the First Trimester." *Paediatric and Perinatal Epidemiology*, 22:587-596 (2008).

- 42 MacLehose, R.F.*, Savitz, D.A., **Herring, A.H.**, Hartmann, K.E., Singer, P.C., and Weinberg, H.S. Drinking Water Disinfection By-Products and Time to Pregnancy. *Epidemiology*, 19(3):451-458 (2008).
- 41 McGinn, A.P.*, Evenson, K.R., **Herring, A.H.**, Huston, S.L., and Rodriguez, D.A. "The Association of Perceived and Objectively Measured Crime with Physical Activity: A Cross-Sectional Analysis." *Journal of Physical Activity and Health*, 5(1):117-131 (2008).
- 40 Mumford, S.L.* , Siega-Riz, A.M., **Herring, A.H.**, and Evenson, K.R. "Dietary Restraint and Gestational Weight Gain." *Journal of the American Dietetic Association*, 108:1646-1653 (2008).
- 39 Savitz, D.A., Chan*, R.L., **Herring, A.H.**, Howards, Penelope P., Hartmann, Katherine E. "Caffeine and Miscarriage Risk." *Epidemiology*, 19(1):55-62 (2008).
- 38 Savitz, D.A., Janevic*, T.M., Engel, S.M., Kaufman, J.S., and **Herring, A.H.** "Ethnicity and Gestational Diabetes in New York City, 1995-2003." *British Journal of Obstetrics and Gynecology*, 115:969-978 (2008).
- 37 Thorp, J.M., Dole, N., **Herring, A.H.**, MacDonald, T.L., Eucker, B., Savitz, D.A., and Kaczor, D. "Alteration in Vaginal Microflora, Douching Prior to Pregnancy, and Preterm Birth." *Paediatric and Perinatal Epidemiology*, 22(6):530-537 (2008).
- 36 Carmichael, S.L., Yang, W., **Herring, A.H.**, Abrams, B., and Shaw, G.M. "Maternal Food Insecurity is Associated with Increased Risk of Certain Birth Defects." *Journal of Nutrition*, 137(9):2087-2092 (2007).
- 35 Fogleman, K.A.* , **Herring, A.H.**, Kaczor, D., Pusek, S.N., Jo, H., and Thorp, J.M. "Factors That Influence the Timing of Spontaneous Labor at Term." *The Journal of Maternal-Fetal and Neonatal Medicine*, 20(11):813-817 (2007).
- 34 Forssen, U.M., **Herring, A.H.**, Savitz, D.A., Nieuwenhuijsen, M.J., Murphy, P.A., Singer, P.C., and Wright, J.M. "Predictors of Use and Consumption of Public Drinking Water Among Pregnant Women." *Journal of Exposure Science and Environmental Epidemiology*, 17(2):159-169 (2007).
- 33 Harville, E.W.* , Savitz, D.A., Dole, N., **Herring, A.H.**, Thorp, J.M., Light, K.C. "Patterns of Salivary Cortisol Secretion in Pregnancy and Implications for Assessment Protocols." *Biological Psychology*, 74(1):85-91 (2007).

- 32 Harville, E.W.*, Savitz, D.A., Dole, N., Thorp, J.M., and **Herring, A.H.** “Psychological and Biological Markers of Stress and Bacterial Vaginosis in Pregnant Women.” *British Journal of Obstetrics and Gynecology*, 114(2):216-223 (2007).
- 31 Luben T.J., Olshan, A.F., **Herring, A.H.**, Jeffay, S., Strader, L., Buus, R.M., Chan*, R.L., Savitz, D.A., Singer, P.C., Weinberg, H.S., and Perrault, S.D. “The Healthy Men Study: An Evaluation of Exposure to Disinfection By-Products in Tap Water and Sperm Quality.” *Environmental Health Perspectives*, 115(8):1169-1176 (2007).
- 30 McGinn, A.P.*, Evenson, K.R., **Herring, A.H.**, and Huston, S.L. “The Relationship Between Leisure, Walking, and Transportation Activity and the Natural Environment.” *Health and Place*, 13(3):588-602 (2007).
- 29 McGinn, A.P.*, Evenson, K.R., **Herring, A.H.**, Huston, S.L., Rodriguez, D.A. “Exploring Associations Between Physical Activity and Perceived and Objective Measures of the Built Environment.” *Journal of Urban Health*, 84(2):162-184 (2007).
- 28 Olshan, A.F., Perrault, S.D., Bradley, L., Buus, R.M., Straeder, L.F., Jeffay, S.C., Lansdell, L., Savitz, D.A., and **Herring, A.H.** “The Healthy Men Study: Design and Recruitment Considerations for Epidemiologic Studies of Male Reproductive Health.” *Fertility and Sterility*, 87(3):554-564 (2007).
- 27 Carmichael, S.L., Shaw, G.M., Yang, W., Laurent, C., **Herring, A.H.**, Royal, M., and Canfield, M. “Correlates of Intake of Folic Acid-Containing Supplements Among Pregnant Women.” *American Journal of Obstetrics and Gynecology*, 94(1):203-210 (2006).
- 26 Daniels, J.L., Savitz, D.A., Bradley, C., Dole, N., Evenson, K.R., Eucker, B., **Herring, A.H.**, Siega-Riz, A.M., and Thorp, J.M. “Attitudes Toward Participation in a Pregnancy and Child Cohort Study.” *Pediatric and Perinatal Epidemiology*, 20(3):260-266 (2006).
- 25 Gilboa, S.*, Mendola, P., Olshan, A.F., Harness, C., Loomis, D., Langlois, P.H., Savitz, D.A., and **Herring, A.H.** “Comparison of Residential Geocoding Methods in a Population-Based Study of Air Quality and Birth Defects.” *Environmental Research*, 101(2):256-262 (2006).
- 24 Gilboa, S.M.*, Mendola, P., Olshan, A.F., Savitz, D.A., **Herring, A.H.**, Loomis, D., Langlois, P.H., and Keating, K. “Characteristics that Predict Locating and Interviewing Mothers Identified by a State Birth Defects Registry and Vital Records.” *Birth Defects Research Part A: Clinical and Molecular Teratology*, 76(1):60-65 (2006).

- 23 Kranz, S.*, Hartman, T., Siega-Riz, A.M., and **Herring, A.H.** “A Diet Quality Index for America Preschoolers Based on Current Dietary Intake Recommendations and an Indicator of Energy Balance.” *Journal of the American Dietetic Association*, 106(10):1594-1604 (2006).
- 22 Messer, L.C., Kaufman, J.S., Dole, N., **Herring, A.H.**, and Laraia, B.A. “Violent Crime Exposure Classification and Adverse Birth Outcomes: A Geographically-Defined Cohort Study.” *International Journal of Health Geographics*, 5:22 (2006).
- 21 Savitz, D.A., Singer, P.C., **Herring, A.H.**, Hartmann, K.E., Weinberg, H.S., and Makarushka, C. “Exposure to Drinking Water Disinfection By-Products and Pregnancy Loss.” *American Journal of Epidemiology*, 164(11):1043-1051 (2006).
- 20 Savitz, D.A., Terry, J.W., **Herring, A.H.**, Mezei, G., Evenson, K., and Kavet, R. “Physical Activity and Magnetic Field Exposure in Pregnancy.” *Epidemiology*, 17(2):222-225 (2006).
- 19 Evenson, K.R., **Herring, A.H.**, and Huston, S.L. “Change in Physical Activity with the Building of a Multi-Use Trail.” *American Journal of Preventive Medicine*, 28:177-185 (2005).
- 18 Gilboa, S.M.*, Mendola, P., Olshan, A.F., Langlois, P.H., Savitz, D.A., Loomis, D., **Herring, A.H.**, and Fixler, D.E. “Relation Between Ambient Air Quality and Selected Birth Defects, Seven County Study, Texas, 1997-2000.” *American Journal of Epidemiology*, 162(3):238-252 (2005).
- 17 Sagiv, S.*, Mendola, P., Loomis, D., **Herring, A.H.**, Neas, L.M., Savitz, D.A., and Poole, C. “A Time Series Analysis of Air Pollution and Preterm Birth in Pennsylvania, 1997-2001.” *Environmental Health Perspectives*, 113(5):602-606 (2005).
- 16 Savitz, D.A., Dole, N., **Herring, A.H.**, Kaczor, D., Murphy, J., Siega-Riz, A.M., Thorp, J.M., and MacDonald, T.L. “Should Spontaneous and Medically-Indicated Preterm Births Be Separated for Studying Aetiology?” *Paediatric and Perinatal Epidemiology*, 19(2):97-105 (2005).
- 15 Savitz, D.A., Dole, N., Kaczor, D., **Herring, A.H.**, Siega-Riz, A.M., Kaufman, J., and Thorp, J.M. “Probability Samples of Area Births Versus Clinic Populations for Reproductive Epidemiology Studies.” *Paediatric and Perinatal Epidemiology*, 19(4):315-322 (2005).
- 14 Yang, J.*, Hartmann, K.E., **Herring, A.H.**, and Savitz, D.A. “Reducing Misclassification in the Assignment of Gestational Month.” *Epidemiology*, 16(1):121-123 (2005).

- 13 Yang, J.*, Savitz, D.A., Dole, N., Hartmann, K., **Herring, A.H.**, Olshan, A., and Thorp, J.M. "Vaginal Bleeding During the First Two Trimesters of Pregnancy." *Paediatric and Perinatal Epidemiology*, 19(4):276-283 (2005).
- 12 Kranz, S.*, Siega-Riz, A.M., **Herring, A.H.**, Stevens, J., and Adair, L. "Changes in Diet Quality of American Preschoolers Between 1977 and 1998." *American Journal of Public Health*, 94(9):1525-1530 (2004).
- 11 Siega-Riz, A.M., Savitz, D.A., Zeisel, S.H., Thorp, J.M., and **Herring, A.H.** "Second Trimester Folate Status and Preterm Birth." *American Journal of Obstetrics and Gynecology*, 191:1851-1857 (2004).
- 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, 09/01/17-06/30/23, \$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

Workshops and Conference Grants

Co-Principal Investigator (Lead PI Mine Dogucu), “Collaborative Research: Advancing Bayesian Thinking in STEM,” NSF, 2022-2024, \$136,769 total, provides funding for STEM educators to develop and introduce new instructional materials for Bayesian methods in different STEM fields

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, “Impact of Early-life Exposure to Semi-Volatile Organic Compounds (SVOCs) on Neonatal and Early Childhood Immune Function,” NIH/NIEHS, 4/21/22-3/31-27, PI: Heather Stapleton (Nicholas School of the Environment)

Co-Investigator and Core PI, “Duke University Superfund Research Center - Developmental Co-Exposures: Mechanisms, Outcomes, and Remediation,” NIH/NIEHS, 2022-2027, PI: Heather Stapleton (Nicholas School of the Environment)

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 Sub-contract), 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 sub-contract 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 sub-contract 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)

“Are You My (Sub)type? Results from the Sepsis Characterization in Kilimanjaro (SICK) Study,” 20th Armitage Lecture, Armitage Workshop and Lecture, University of Cambridge, October 2023

“Informative Priors for Clustering,” Greenberg Lectures, UNC-Chapel Hill, May 18-19, 2023

“Bayesian Functional Factor Analysis using Nearly Mutually Orthogonal Processes,” Greenberg Lectures, UNC-Chapel Hill, May 18-19, 2023

“Bayesian Matrix Completion for Hypothesis Testing,” Greenberg Lectures, UNC-Chapel Hill, May 18-19, 2023

“Bayesian Functional Data Analysis Using Nearly Mutually Orthogonal Processes”, Keynote Address, BNP13, October 28, 2022

“A Generalized Bayes Framework for Probabilistic Clustering,” ISBA World Meeting, Montreal, Quebec, June 26-July 1, 2022

“Informative Priors for Clustering,” BAYSM Plenary Address, Montreal, Quebec, June 22, 2022

“Informative Priors for Clustering,” Brown University Department of Biostatistics Seminar, January 31, 2022

“Bayesian Matrix Completion for Hypothesis Testing,” EAC-ISBA 2021, November 14, 2021

“Advanced Methodologies,” United Nations World Data Forum, October 4, 2021

Keynote Speaker, University of Michigan Big Data Summer Institute, July 29, 2021

“Bayesian Modeling to Predict Chemical Toxicity Using High Throughput Screening Data,” Keynote Lecture, ISBA World Meeting, June 2021

“Informative Priors for Clustering,” Keynote Speaker, Minghui Yu Memorial Conference, Columbia University, March 2021

“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 198/GLHLTH 298, Introduction to Health Data Science, 2021 (45 students) and Fall 2022 (53 students)

STA 440, Case Studies (Senior Capstone), 2018 (40 students), 2020 (27 students), Spring 2023 (47 students)

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

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

STA 701, Grad Research Seminar, spring 2023

STA 790, Professional Development for Statisticians, Spring 2022 (6 students)

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

STA 841, Categorical Data Analysis, 2017 (\approx 35 students)

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

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

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

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

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

POSTDOCTORAL
FELLOWS
SUPERVISED

Nico Anchesi, 2022-present (joint with D. Dunson)

Maoran Xu, 2022-present (joint with D. Dunson)

Tommaso Rigon, 2019-2020 (joint with D. Dunson)

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

Phuc Nguyen, 2020-2023

Bora Jin, 2019-2023

Kelly Moran, 2018-2020, Scientist, Los Alamos National Laboratories (honorable mention, 2021 Savage Award for Applied Methodology)

Sally Paganin, 2016-2019, Assistant Professor, The Ohio State University

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: Youngsoo Baek (Statistical Science), Betsy Beresson (Statistical Science), Yunran Chen (Statistical Science), Patrick LeBlanc (Statistical Science), Vittorio Orlandi (Statistical Science), Carol Wang (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), Federico Ferrari (Statistical Science), 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), Heather Mathews (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), Becky Tang (Statistical Science), Kyla Taylor (Epidemiology), Xiaoyan Wang (Biostatistics), Lexie White (Epidemiology), Andra Wilkinson (Maternal and Child Health), Meng Xie (Statistical Science), 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 (2019), 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, 2019-2020), 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, 2019-2020), Chengxin Yang (Statistical Science, 2022), Xinlu Zhao (Global Health, 2018-2019)

UNDERGRAD
HONORS
THESIS

Eric Emilio Butter, 2009-2010
Anna Darwish, 2020-2021
Meredith Brown, 2021-2022

Professional Organizations

President-Elect, President, and Past-President, International Society for Bayesian Analysis, 2022-2024

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

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

Member, ISBA Committee on Named Lectures, 2020-2022

Member, IBS Committee on Communications, 2021-2022

Organizing Committee, 1st Bayesian Nonparametrics Networking Workshop, 2020-2022

Member, Committee on Funded Research, American Statistical Association, 2020-2025

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

Member, NASEM Standing Committee for the Review of the Dietary Reference Intakes Framework, 2022-2025

Member, NASEM Planning Committee on Methods for Assessing Food and Dietary Supplement Intakes in Special Population Groups: Pregnant Women and Young Children Ages 2-11 Years Old, 2021

Ad Hoc Member, NLM BLIR Review Panel, 2020

Member, NIEHS RIVER Awards Review, 2018

Member, NASEM Committee on Applied and Theoretical Statistics (CATS), 2015-2021

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

PNAS Statistical and Methodological Review Committee, 2022-2025

Associate Editor, *Journal of the American Statistical Association, Theory and Methods*, 2018-2022

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 External Service

Member, External Advisory Committee, Harvard Environmental Biostatistics T32 Training Grant, 2022-present

Member, External Advisory Committee, UNC Environmental Biostatistics T32 Training Grant, 2018-present

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, 2019-present

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

Provost Search Committee (Chair), 2022-2023

University Priorities Committee, 2022-2025

Provost's Advisory Committee on Appointment, Promotion, and Tenure, 2020-2023 (Chair 2021-2022)

Academic Council Committee on Faculty Compensation, 2022-2024 (Chair 2022-2023)

Duke Science and Technology Advisory Committee, 2018-2020

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

Quality Enhancement Plan Advisory Committee, 2020-present

Directors of Undergraduate Study Advisory Board, 2019-2021

Directors of Undergraduate Study Executive Board, 2019-2021

DUKE
DEPARTMENTAL
SERVICE

Tenure-Track Assistant Professor search committee in Statistical Science (Chair), 2022-2023

Awards Committee, Department of Statistical Science, 2021-2022

Assistant Professor of the Practice search committee in Statistical Science (Chair), 2021

Doctoral Admissions Committee in Statistical Science, 2021-2022

Appointments and Promotions Committee, Duke Global Health Institute, 2020-present

Assistant Director of Undergraduate Studies, Duke Global Health Institute, June 2020-2021

Undergraduate Curriculum Committee, 2019-present

Director of Undergraduate Studies in Statistical Science, 2019-2021

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