

## CURRICULUM VITA: MICHAEL R. ELLIOTT

### Office:

Department of Biostatistics  
University of Michigan School of Public Health  
M4124 SPH II  
1415 Washington Heights  
Ann Arbor, MI 48109  
phone: (734) 647-5160  
fax: (734) 763-2215

### Home:

2205 Carol Drive  
Ann Arbor, MI 48103  
(734) 972-6743

Survey Methodology Program  
University of Michigan Institute for Social Research  
Rm 4068, 426 Thompson St.  
Ann Arbor, MI 48106  
phone: (734) 647-5563  
fax: (734) 764-8263

email: [mrelliot@umich.edu](mailto:mrelliot@umich.edu)

website: <https://sph.umich.edu/faculty-profiles/elliott-michael.html>

## EDUCATION

Ph.D.	Biostatistics	University of Michigan	1999
M.S.	Biostatistics	University of Michigan	1997
B.A.	Mathematics	University of Chicago	1985

## POSITIONS

2018-2021	Associate Chair for Academic Affairs, Department of Biostatistics, University of Michigan School of Public Health, Ann Arbor, MI
2005-present	Professor (Assistant Professor 2005-2008, Associate Professor 2008-2012), Department of Biostatistics, University of Michigan School of Public Health, Ann Arbor, MI
2005-present	Research Professor (Assistant Research Professor 2005-2008, Associate Research Professor 2008-2012), Survey Methodology Program, Survey Research Center, Institute for Social Research, Ann Arbor, MI
2000-2005	Assistant Professor of Biostatistics, Clinical-Educator, Center for Clinical Epidemiology and Biostatistics, Department of Biostatistics and Epidemiology, University of Pennsylvania School of Medicine, Philadelphia, PA
1995-1999	Research Assistant Department of Biostatistics, University of Michigan, Ann Arbor, MI University of Michigan Transportation Research Institute, Ann Arbor, MI

- 1988-1995 Senior Research Associate  
Northeast Research, Orono, ME
- 1987-1988 High School Teacher  
Hyde School, Bath, ME
- 1985-1987 Technical Writer  
Bell Laboratories, North Andover, MA

Visiting Positions

- 2012 Visiting Fellow  
Department of Statistics, London School of Economics  
London, UK
- 2000 Visiting Professor of Biostatistics  
Department of Biostatistics, University of Michigan School of Public  
Health, Ann Arbor, MI
- 2000 Visiting Research Scientist  
University of Michigan Transportation Research Institute, Ann Arbor, MI

**AFFILIATIONS**

- 2016-present Associate Fellow, Center for Injury Research and Prevention, Children's  
Hospital of Philadelphia
- 2011-2017 University of Michigan Injury Research Center
- 2010-2017 University of Michigan Cancer Center
- 2006-present Adjunct Professor (Adjunct Assistant Professor 2005-2008; Adjunct Associate  
Professor 2008-2012) Joint Program in Survey Methodology, University of  
Maryland, College Park, MD.
- 2005-present Population Study Center Research Affiliate, Institute for Social Research, Ann  
Arbor, MI
- 2005-2022 Adjunct Professor (Adjunct Assistant Professor 2005-2008; Adjunct Associate  
Professor 2008-2016), Department of Epidemiology, Biostatistics and  
Informatics, University of Pennsylvania School of Medicine, Philadelphia, PA

**ACADEMIC HONORS**

2024: Monroe G. Sirken Award in Interdisciplinary Survey Methods Research, American  
Statistical Association/American Association of Public Opinion Research

2022: Chair's Citizenship Award, Department of Biostatistics, University of Michigan

2017: Winner, Survey Methods Section SPEED poster competition, 2017 Joint Statistical Meetings

2011: Elected Fellow, American Statistical Association

2010: Washington D.C. Statistical Society Gertrude M. Cox Award

2002, 2007: University of Michigan Transportation Research Institute Best Publication Award

2006: Elected Member of the International Statistical Institute

2001: Travel Award Winner, Wayne Fuller 70<sup>th</sup> Birthday Conference, Iowa State University Department of Statistics.

1999-2000: Rackham Predoctoral Fellowship, University of Michigan.

1996-1998: National Mental Health Institute Pre-doctoral Training Grantee.

1996: Outstanding Achievement in First Year Master's Program, Department of Biostatistics, University of Michigan.

1985: Conferred Cum Laude University of Chicago.

1981-1985: University of Chicago's Dean's List.

## GRANTS

### Current

Co-Investigator, *A Contemporary Look at Driver Training and Its Role in Reducing Crash Risk in Novice Adolescent Drivers* (PI: Flaura Winston and Dan Romer, 9/1/23-8/31/27), National Institute of Child Health and Human Development (8% support)

Site Principal Investigator, *Prenatal Exposures and Child Health Outcomes 2: Increasing ECHO Urban and Rural Diversity* (PI: Jean Kerver, 9/1/23-8/31/30), NIH ECHO grants (10% support)

Co-Investigator, *Mechanisms of inequalities in ADRD risk across race and place in the Michigan Cognitive Aging Project* (PI: Zahodne, 6/1/23-5/30/28), National Institute of Aging (5% support)

Co-Investigator, *Racial Inequalities in Sleep Deficiencies: The Role of Stress in the Workplace*, (PI: Margaret Hicken, 8/7/22-4/30/27), National Institutes of Health (10% support)

Co-Investigator, *Disparities in the Burden and Progression of Multi-Morbidity Across Adulthood*, (PI: Solveig Argeanu, 5/1/22-4/30/26), National Institutes of Health (8% support)

Co-Investigator, *ACL-LIFE Life History Interview and Validation* (PI: Sarah Burgard, 1/15/20-11/30/24), National Institute of Aging, (12% support)

Biostatistician, *Study of Women's Health Across the Nation (SWAN) VI: Michigan Site*, (PI: Sioban Harlow, 9/30/20-8/31/25), National Institute of Aging (15% support).

Biostatistician, *The Impact of Tobacco Control Policies on Health Equity in the United States*, (PI: Nancy Fleischer, 12/19/17-11/30/24), National Cancer Institute (5% support)

Co-Investigator, *COVID-19 Recovery Surveillance*, (PI: Nancy Fleischer, 11/30/21-9/30/24), Michigan Department of Health and Human Services (5% support)

Former

Co-Investigator, *Improving Reproducibility of Respondent Driven Sampling through Adaptive Design*, (PI: Sunghee Lee, 2/15/19-12/31/23), National Institute on Drug Abuse (9% support).

Site Principal Investigator, *Prenatal Exposures and Child Health Outcomes: A Statewide Study* (PI: Nigél Paneth, 9/1/16-8/31/23), NIH ECHO grants (10% support)

**Principal Investigator**, *Variance as a Predictor of Health Outcomes* (9/1/21-8/30/23), National Institutes of Aging, R56 grant, 1% support.

**Principal Investigator** (with Trivellore Raghunathan), *Novel Methods for Incorporating Sample Designs in Bayesian Inference*, (9/1/17-8/30/23), National Science Foundation (15% support)

Co-Investigator, *Racial Inequalities in Health throughout Adulthood: The Cumulative Impact of Neighborhood Chemical and Non-Chemical Stressors on Epigenomic Pathways* (PI: Margaret Hicken, 5/1/18-4/30/23), National Institutes of Health (5% support)

Co-Investigator, *Dynamics of Obesity between Infancy and Young Adulthood in the United States*, (PI: Solveig Argeseanu, 3/15/18-2/28/23), National Institutes of Health (5% support)

Co-Investigator, *A Development of Exemplars of Non-Response Bias Analysis for NCES Data Collections* (PI: Yajuan Si, 1/1/20-9/30/22), National Center for Educational Statistics, 5% support.

Co-Investigator, *Determining critical skill deficits that predict novice driver crashes: A prospective study using a novel virtual driving test at point of licensure, state licensing data and crash outcomes*, (5/1/19-4/30/22), National Institutes of Health (8% support).

Site Principal Investigator, *Characterizing Health Impacts of Built Environment Features using Complex Data*, (PI: Brisa Sanchez, 2/15-17-1/31/22, National Institutes of Health (8% support)

**Principal Investigator**, *IPA with the Center for Adaptive Design*, IPA, US Census Bureau (2/01/17-9/30/20) (15% support)

Co-Investigator, *Advancing the Science of Responsive Survey Design using Bayesian Methodology*, (PI: James Wager, 5/1/18-4/30/21), National Institutes of Health (8% support)

Co-Investigator, *Cognitive Resilience and Community Context: Examining the role of Neighborhood Built and Social Environments for Slowing the Progression of Dementia among Older Americans*, (PI: Phillipa Clarke, 9/15/17-6/30/21), National Institutes of Health (10% support)

Co-Investigator, *REGARDS- BSE: Documentation and Examination of the Effects of Built and Social Environment on Stroke Incidence and Quality of Life After Stroke*. (PI: Natalie Colabianchi, 2/01/16-1/31/21), National Heart, Lung, and Blood Institute, R01 Grant (10% support).

Biostatistician, *Study of Women's Health Across the Nation (SWAN) V: Michigan Site*, (PI: Sioban Harlow, 7/17/14-8/31/20), P01 Grant, National Institute of Aging (2% support).

Co-Investigator, *Computing Statistics When Data Cannot be Shared*, (PI: Alter, 7/1/17-6/30/20), Laura and John Arnold Foundation (8% support)

Statistician, *Bayesian Methods for Adaptive Sample Design* (9/1/19-8/31/20), US Census Bureau (18% support)

Co-Investigator, *Empirical Assessment of Respondent Driven Sampling from Total Survey Error Perspectives*, (PI: Sunghee Lee, 9/15/15-8/31/19), NSF Grant (3% support).

Co-Investigator, *Building a Transportation Data* (PI: Carol Flannagan, 7/1/16-6/30/19), MIDAS Internal Michigan Grant (4% Support)

**Primary Investigator**, *Addressing Disclosure Risk of Contextualized Microdata in Survey Design* (1/16/12-11/30/18), R01 grant, National Institute of Child and Human Development (5% support)

Co-Investigator, *Proposal to the Auto Alliance to Investigate Secondary Task Prevalence, Odds Ratios vs. Relative Risk, Absolute Risk and Alternative Baselines in SHRP2 Naturalistic Driving*, (PI: Carol Flannagan, 10/6/16-5/30/18), Alliance of Automobile Manufactures (6% support).

Biostatistician, *University of Michigan Injury Control Research Center* (PI: Rebecca Cunningham, 8/01/12-7/31/17), Centers for Disease Control (5% support)

Co-Investigator, *The Challenge of Individualizing Treatments for Patients with Breast Cancer* (PI: Steven Katz, 12/01/11-8/31/17), R01 grant, National Cancer Institute (1% support)

Co-Investigator, *Longitudinal study of adverse driving outcomes among adolescents with ADHD* (PI: A. Curry 9/1/14-8/30/17), R01 grant, National Institute of Child and Human Development (4% support)

Biostatistician, *The Social and Economic Dynamics of Optimism and Hopelessness over American Adulthood: Evidence from the Americans' Changing Lives Study* (PI; Phillipa Clark, 6/1/15-5/13/17), Templeton Foundation (5% support).

Co-Investigator, *PMI Preparation/Prototyping Initiative*, (PI: Goncalo Abecasis, 3/1/16-12/31/16), National Institutes of Health (10% support)

Biostatistician, *Crash Avoidance Systems: Safety and Reliability of an Important Class of Electronic Control Systems*, (PI: Carol Flannagan, 6/1/15-12/30/16) Toyota Corporation (10% support)

Biostatistician, *Evaluating the Long-Term Effectiveness of the Teen Driving Plan*, (PI: Jessica Mirman, 1/15/15-1/14/17), R03 Grant, National Institute of Child and Human Development (2% support).

Site Principal Investigator, *Development and Deployment of Surveys and Samples*, (PI: Michael Elliott, 4/1/16-11/30/16), NIH Precision Medicine Grant (10% support)

Biostatistician, *Understanding Social Disparities in Health and Aging* (PI: S. Burgard, 9/01/06-2/28/16), R01 grant, National Institute of Aging (8% support)

Co-Investigator, *Statistical Methods for Cancer Biomarkers*, (PI: J. Taylor, 12/1/08-12/31/15), R01 grant, National Cancer Institute (3% support)

Biostatistician, *Discretionary Cooperative Agreement to Support Biomechanical Research – Task 9-CIREN* (PI: Carol Flannigan, 5/01/13-4/30/15), NHTSA Grant (5% support)

Biostatistician, *Evaluation of the Interaction between Pediatric Occupants and Restraint Systems During Frontal Impacts: a Novel approach to Measure Head and Spinal Kinematics and Determine Resulting Injury Mechanism* (PI: Kristy Arbogast, 9/1/14-8/30/15), Children's Hospital of Philadelphia (5% support)

Biostatistician, *Simulated Driving Assessment and Mental Health Evaluation*, (PI: Flaua Winston, 10/1/13-6/30/14), Gift support, State Farm Insurance (5% support)

Co-Investigator, *Effect of decals on teen compliance with and enforcement of driving restriction*, (PI: A. Curry 5/15/13-5/14/14), Gift support, State Farm Insurance (10% support)

Biostatistician, *Development of a Comprehensive Approach to Measuring Serious Injuries in Crashes* (PI: Carol Flannigan, 5/01/13-4/30/14), NHTSA Grant (10% support)

Biostatistician, *Youthful Driver Initiative*, (PI: F. Winston, D. Durbin, 9/01/06-12/31/13), Sole source contract, State Farm Insurance (5% support)

Biostatistician, *Educational Evaluation Engine* (PI: Bendek Hansen, 7/01/13-12/31/13), NHTSA Grant (15% support)

Co-Investigator, *Comparing Alternative Measures of the Quality of Survey Data* (PI: J. Wagner, 9/01/11-6/30/13), R03 grant, National Institute of Child and Human Development (2% support)

**Principal Investigator**, *Hierarchical Bayesian Analysis of Complex Sample Survey Data*, (7/1/09-6/30/13), R01 grant, National Cancer Institute (18% support)

Biostatistician, *Estimating Probability of Selection of CIREN Cases* (PI: Carol Flannigan, 5/01/11-4/30/13), NHTSA Grant (5% support)

Site Principal Investigator, *The National Children's Study*, Contract, National Institute of Child Health and Human Development (9/28/07-3/31/13) (5% support)

**Principal Investigator**, *Methods for Studying Variability as a Predictor of Health Status*, (9/1/10-8/31/12), R03 grant, National Institute for Aging (8% support)

Co-Investigator, *Negative Working Conditions and Health Across the Career*, R03 grant, National Institute of Mental Health (PI: S. Burgard, 9/1/09-8/31/12) (5% support)

Co-Investigator, *Causal Methods for Mediation and Interaction*, (PI: T. Ten Have, 9/1/07-5/31/12), R01 grant, National Institute of Mental Health (15% support)

Biostatistician, *Causal Estimates of Neighborhood Poverty on Health and Mortality*, (P.I., D. Phuong (Phoenix) Do, 9/1/09-8/30/11), R21 Grant, National Institutes of Health (5% support)

Co-Investigator, *Secular Change in Menstrual Function*, R01 grant, National Institute of Child Health and Human Development (PI: S. Harlow, 2/1/08-4/30/11) (10% support)

**Co-Principal Investigator**, *Evaluation Of State Of Louisiana's `Value Added Teacher Preparation Program`*, Sole Source Contract, State of Louisiana (PI: B. Rowan, 3/01/08-6/30/09) (1% support)

Co-Investigator, *Continued Development of Methods for Appropriate Analysis of CIREN Data* Contract, Traffic Safety Administration. (P.I. Jonathan Rupp, 9/01/08-4/30/09) (5% support).

Co-Investigator, *Estimation of Disclosure Risk and Statistical Methods for Disclosure Limitation*, (PI: T. Raghunathan, 9/01/05-12/31/08) R01 grant, National Institute of Child Health and Human Development (10% support)

**Principal Investigator**, *Model-Based Approaches to the Analysis of Weighted Data*, (8/01/03-7/31/07), R01 grant, National Heart, Lung, and Blood Institute (30% support)

Biostatistician, *Alcohol Related Risk Behavior-Adolescent to Young Adult-ISR* (PI: J. Shope, 1/01/06-6/30/07), R01 grant, National Institute of Alcohol and Alcohol Abuse (5% support)

Biostatistician, *NHIS Data to Estimate Catastrophically Disabled Young Veterans*, (P.I. B. Kinoshian, 9/01/05-6/30/07), IPA, Veterans Administration (20% support)

**Principal Investigator**, *Combining Data from NHIS and BRFSS*, (6/01/03-8/31/05), R03 grant, National Cancer Institute (15% support)

Biostatistician, *A Case-Control Study of Alcohol Outlets and Firearm Violence*, (PI: Charles Branas, 9/01/02-8/31/05), R01 grant, National Institute of Alcohol and Alcohol Abuse (10% support)

Biostatistician, *Secondary Analysis of EPA RPN\* Data*, (PI: Paul Kleindorfer, 7/01/00-8/31/05), Cooperative agreement, Environmental Protection Agency (10% support)

Biostatistician, *The State of Child Occupant Protection*, (PI: F. Winston, D. Durbin, 7/01/00-8/31/05), Sole source contract, State Farm Insurance (20% support)

Biostatistician, University of Pennsylvania Cancer Center Core Support Grant (10/01/00-11/30/04), National Cancer Institute (5% support)

Biostatistician, *An EXPORT Center of Excellence for Inner City Health* (PI: Shiriki Kumanyika and Jerry Johnson, 10/1/02-7/31/03), P30 grant, National Institute of Health (10% support)

**Principal Investigator**, *Combining Information from the 2000 Census, ACE Survey, and Demographic Analysis*, IPA, US Census Bureau (4/01/01-9/30/02) (20% support)

**Principal Investigator**, *Combining the National Health Interview Survey and Behavioral Risk Factor Surveillance Survey*, Sole source contract, National Cancer Institute (10/01/01-9/30/02) (10% support)

Biostatistician, *Probing Drug-Related Mental Disorders of Aging* (PI: Ira Katz, 7/01/00-6/30/02), R01 grant, National Institute of Mental Health (10% support)

Biostatistician, *Biological Markers of Breast Disease*, (PI: Barbara Weber, J. Richard Landis, 7/01/00-4/01/01), R01, National Cancer Institute (15% support)

**PEER-REVIEWED RESEARCH PUBLICATIONS -- PUBLISHED** (\*=Elliott's doctoral advisee/co-advisee)

1. **Elliott, M.R.**, Little, R.J.A., Lewitzky, S. (2000). "Subsampling Callbacks to Improve Survey Efficiency," *Journal of the American Statistical Association*, **95**, 730-738.
2. **Elliott, M.R.**, Little, R.J.A. (2000). "A Bayesian Approach to Combining Information from a Census, a Coverage Measurement Survey and Demographic Analysis," *Journal of the American Statistical Association*, **95**, 351-362.
3. **Elliott, M.R.**, Little, R.J.A. (2000). "Model-based Alternatives to Trimming Survey Weights," *Journal of Official Statistics*, **16**, 191-209.
4. **Elliott, M.R.**, Waller, P.F., Raghunathan, T.E., Shope, J.T., Little, R.J.A. (2000). "Persistence of Violation and Crash Behavior over Time," *Journal of Safety Research*, **31**, 229-242.
5. Shope, J.T., **Elliott, M.R.**, Raghunathan, T.E., Waller, P.F. (2001). "Long-term Follow-up of a High School Alcohol Misuse Prevention Program's Effect on Students' Subsequent Driving," *Alcoholism: Clinical and Experimental Research*, **25**, 403-410.
6. Winston, F.K., Kallan, M.J., **Elliott, M.R.**, Menon, R., Durbin, D.R. (2001). "Risk of Injury to Child Passengers in Compact-Extended Cab Pick-up Trucks," *Journal of the American Medical Association*, **287**, 1147-1152.
7. Winston, F.K., Kallan, M.J., **Elliott, M.R.**, Menon, R., Durbin, D.R. (2001). "Rear Seating and Risk of Injury to Child Occupants by Vehicle Type," *Annual Proceedings of AAAM. Association for the Advancement of Automotive Medicine*, **45**, 51-60.
8. Durbin D.R., **Elliott M.R.**, Arbogast K.B., Anderko R.L., Winston F.K. (2001). "The Effect of Seating Position on Risk of Injury to Children in Side Impact Crashes," *Annual Proceedings of AAAM. Association for the Advancement of Automotive Medicine*, **45**, 61-72.
9. Molnar, L., Shope, J.T., **Elliott, M.R.**, Waller, P.F. (2001). "Graduated Driver Licensing in Michigan: Early Impact on Motor Vehicle Crashes among 16 Year-old Drivers," *Journal of the American Medical Association*, **286**, 1593-1598.

10. **Elliott, M.R.**, Waller, P.F., Raghunathan, T.E., Shope, J.T. (2001). "Predicting Offenses and Crashes from Drivers' Offense and Crash Histories," *Crash Prevention and Injury Control*, **3**, 167-178.
11. Waller, P.F., **Elliott, M.R.**, Shope, J.T., Raghunathan, T.E., Little, R.J.A. (2001). "Changes in Young Adult Offense and Crash Patterns over Time," *Accident Analysis and Prevention*, **33**, 117-128.
12. **Elliott, M.R.**, Sammel, M.D. (2002). "Discussion of 'Latent Class Analysis of Complex Sample Survey Data: Application to Dietary Data'," *Journal of the American Statistical Association*, **97**, 732-734.
13. **Elliott, M.R.**, Raghunathan, T.E., Shope, J.T., (2002). "The Effect of Age at Time-of-License and Duration of Licensure on Risk of Vehicular Crash: Parametric Analysis of Repeated Time-to-Event Measures," *Journal of the American Statistical Association*, **97**, 420-431.
14. Palaniappan, L., Anthony, M-N, **Elliott, M.R.**, Killeen, A., Giacherio, D., Rubenfire, M. (2002). "Cardiovascular Risk Factors in Young Minority Women," *American Journal of Cardiology*, **89**, 524-529.
15. **Elliott, M.R.**, Shope, J.T. (2003). "Use of a Bayesian Change-point Model to Estimate the Effect of a Graduated Driver's Licensing Program," *Journal of Data Science*, **1**, 43-63.
16. Kallan M.J., Durbin D.R., **Elliott M.R.**, Menon R.A., Winston F.K. (2003). "Differential Risk of Injury in Child Occupants by Passenger Car Classification," *Annual Proceedings of AAAM, Association for the Advancement of Automotive Medicine*. **47**, 329-341.
17. Winston F.K., Chen I.G., Arbogast K.B., **Elliott M.R.**, Durbin D.R. (2003). "Shifts in Child Restraint Use According to Child Weight in the United States from 1999 to 2002," *Annual Proceedings of AAAM, Association for the Advancement of Automotive Medicine*. **47**, 313-328.
18. **Elliott, M.R.**, Arbogast, K.B., Menon, R., Durbin, D.R., Winston, F.K. (2003). "Accuracy of Self Reported Data for Estimating Crash Severity," *Accident Analysis and Prevention*, **35**, 833-840.
19. **Elliott, M.R.**, Kleindorfer, P.R., Lowe, R.A. (2003). "The Role of Hazardousness and Regulatory Practice in the Accidental Release of Chemicals at US Industrial Facilities," *Risk Analysis*, **23**, 883-896.
20. Kleindorfer, P.R., Belke, J.C., **Elliott, M.R.**, Lee, K., Lowe, R.A., Feldman H. (2003). "Accident Epidemiology and the U.S. Chemical Industry: Accident History and Worst-Case Data from RMP\*Info," *Risk Analysis*, **23**, 865-881.
21. Durbin, D.R., **Elliott, M.R.**, Winston, F.K. (2003). "Belt-Positioning Booster Seats and Reduction in Risk of Injury among Children in Vehicle Crashes," *Journal of the American Medical Association*, **289**, 2835-2840.
22. Durbin, D.R., Kallan, M.K., **Elliott, M.R.**, Arbogast, K.B., Cornejo, R.L., Winston, F.K. (2003). "Risk of Injury to Restrained Children from Passenger Airbags," *Traffic Injury Prevention*, **4**, 58-63.

23. Ten Have, T.R., **Elliott, M.R.**, Joffe, M., Zanutto, E. (2004). "Causal models for randomized physician encouragement trials in treating primary care depression," *Journal of the American Statistical Association*, **99**, 16-25.
24. Kallan, M.J., Durbin, D.B., **Elliott, M.R.**, Arbogast, K.B., Winston, F.K. (2004). "Differential Risk of Injury to Child Occupants by SUV Size," *Annual Proceedings of AAAM, Association for the Advancement of Automotive Medicine*, **48**, 87-100.
25. Zuppa, A.F., Nadkarni, V., Davis, L., Adamson, P.C., Helfaer, M.A., **Elliott, M.R.**, Abrams, J., Durbin, D. (2004). "The Effect of a Thyroid Hormone Infusion on Vasopressor Support in Critically Ill Children with Cessation of Neural Function," *Critical Care Medicine*, **32**, 2318-2322.
26. Kleindorfer, P.R., **Elliott, M.R.**, Wang, Y., Lowe, R.A. (2004). "Drivers of Accident Preparedness and Safety: Evidence from the RMP Rule," *Journal of Hazardous Material*, **115**, 9-16.
27. Branas, C.C., Nance, M.L., **Elliott, M.R.**, Richmond, T.S., Schwab, C.W. (2004). "Urban-rural Shifts in Intentional Firearm Death: Different Causes, Same Results," *American Journal of Public Health*, **94**, 1750-1755.
28. Durbin, D.R., Chen, I.G., **Elliott, M.R.**, Winston F.K. (2004). "Factors Associated with Front Row Seating of Children in Motor Vehicle Crashes," *Epidemiology*, **15**, 345-349.
29. Winston, F.K., Chen, I.G., **Elliott, M.R.**, Arbogast, K.B., Durbin, D.R. (2004). "Recent Trends in Child Restraint Practices in the United States," *Pediatrics*, **113**, 458-464.
30. Winston, F.K., **Elliott, M.R.**, Chen, I.G., Simpson, E., Durbin, D.R. (2004). "Acute Healthcare Utilization by Children After Motor Vehicle Crashes," *Accident Analysis and Prevention*, **36**, 507-511.
31. **Elliott, M.R.**, Yang, Y., Lowe, R.A., Kleindorfer, P.R. (2004). "Environmental Justice: Frequency and Severity of U.S. Chemical Industry Accidents and the Socioeconomic Status of Surrounding Communities," *Journal of Epidemiology and Community Health*, **58**, 24-30.
32. **Elliott, M.R.**, Little, R.J.A. (2005). "A Bayesian Approach to 2000 Census Evaluation using A.C.E. Survey Data and Demographic Analysis," *Journal of the American Statistical Association*, **100**, 380-388.
33. **Elliott, M.R.**, Davis, W.W. (2005). "Obtaining Cancer Risk Factor Prevalence Estimates in Small Areas: Combining Data from the Behavioral Risk Factor Surveillance Survey and the National Health Interview Survey," *Journal of the Royal Statistical Society*, **C54**, 595-609.
34. **Elliott, M.R.**, Ten Have T.R., Gallo, J., Bogner, H.R. Katz, I.R. (2005). "Use of Latent Class Models to Assist in Diagnoses using Emotional Affect Data," *Biostatistics*, **6**, 119-143.
35. Winston, F.K., Baxt, C., Kassam-Adams, N.L., **Elliott, M.R.**, Kallan, M.J. (2005). "Acute Traumatic Stress Symptoms in Child Occupants and their Parent Drivers after Crash Involvement," *Archives of Pediatrics & Adolescent Medicine*, **159**, 1074-1079.

36. Stettler, N., **Elliott, M.R.**, Kallan, M., Auerbach, S.B., Kumanyika, S.K. (2005). "High Prevalence of Overweight Among Pediatric Users of Community Health Centers," *Pediatrics*, **116**, 381-388.
37. Chen, I., Durbin, D.R., **Elliott, M.R.**, Kallan, M.K., Winston, F.K. (2005). "Trips Characteristics of Vehicle Crashes Involving Child Passengers," *Injury Prevention*, **11**, 219-224.
38. Arbogast, K.A., Durbin, D.R., Kallan, M., **Elliott, M.R.**, Winston, F.K. (2005). "Injury Risk to Restrained Children Exposed to Deployed First and Second Generation Air Bags in Frontal Crashes," *Archives of Pediatric and Adolescent Medicine*, **159**, 342-346.
39. Durbin, D.R., Chen, I.G., Smith, R., **Elliott, M.R.**, Winston, F.K. (2005). "The Effect of Seating Position and Appropriate Restraint Use on the Risk of Injury to Children in Motor Vehicle Crashes," *Pediatrics*, **115**, 305-309.
40. Chen, I.G., **Elliott, M.R.**, Winston, F.K., Durbin, D.R. (2005). "Teen Drivers and the Risk of Injury to Child Passengers in Crashes," *Injury Prevention*, **11**, 12-17.
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**PEER-REVIEWED RESEARCH PUBLICATIONS -- SUBMITTED** (\*=Elliott’s doctoral advisee/co-advisee)

280. Wang, Y.\*, Lee, S., **Elliott, M.R.** (2025). “A Bayesian Approach for the Population Size Estimation in Respondent-Driven Sampling Utilizing Duplicate Contacts,” submitted to *Sociological Methodology*.

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296. Hirschtick, J.L., Slocum, E., Whittington, B., **Elliott, M.R.**, Ahmed, S., Fleischer, N.L. (2025). "Comparison of Survey Questions to Define Long COVID: Implications for Prevalence and Disparities," submitted to *Health Education and Behavior*.
297. Yu, M.\*, Wu, Z., Hood, M.M., Karvonen-Gutierrez, C., Harlow, S.D., **Elliott, M.R.** (2025). "Joint Modeling of Multiple Longitudinal Biomarkers and Survival Outcomes via Threshold Regression: Variability as a Predictor," submitted to *Journal of the American Statistical Association*.

**BOOK CHAPTERS**

1. “Combining Estimates from Multiple Surveys,” (2018). **Elliott, M.R.**, Raghunathan, T.E., Schenker, N. *Wiley StatsRef: Statistical Reference Online*.  
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**EXPERT PANEL PUBLICATIONS**

1. *Study Design Decisions for Postsecondary Surveys*. Report by the National Institute of Statistical Sciences Technical Expert Panel. Biemer P., **Elliott, M.R.** Galloway F., Reist B., Valliant R., Young L.J. National Center for Educational Statistics, 2017.
2. *The 2014 Redesign of the Survey of Income and Program Participation*. A Consensus Study Report of the National Academy of Sciences, Engineering, and Medicine. Czajka, J.L., Bitler, M.P., Brandon, P.D., **Elliott, M.R.**, Houtenville, A., Iceland, J., Imai, K., Kasprzyk, D., Shaefer, H.L., Sherman, A., Smith, K.E., Smith, T.M., Ziliak, J.P., House, C.C., Bradford, A., Gaskin, A. National Academies Press, 2018.

**INVITED PAPER/POSTER PRESENTATIONS**

- “Advances in Incorporating Sample Designs in Bayesian Inference,” presented at the International Society for Bayesian Analysis 2024, Venice, Italy, July 2024.
- “The Role of Probability Samples in the 21st Century: 2024 Sirkin Award Lecture,” presented at the at the 2024 American Association of Public Opinion Research, Atlanta, GA, May 2024.
- “Who Can We Generalize to? Aiming at Representativeness without Formal Representativeness,” presented at the 2024 International Biometric Society, Eastern North American Region (ENAR), Baltimore, MD, March 2024.
- “Transportability of Controlled Randomized Trials,” presented at the 2023 Joint Statistical Meetings, Toronto, Canada, August 2023 and at the “Extending Inferences to a New Target Population” ICERM workshop, Providence, RI, November 2023.
- “Assessing the Surrogacy Paradox in Subpopulations,” presented at the 31<sup>st</sup> Annual Biometric Conference, Riga, Latvia, July 2022; and at the Banff workshop: Statistical Challenges in the Identification, Validation, and Use of Surrogate Markers Workshop, Oaxaca, Mexico, August 2022.
- “Synergies Between Survey Statistics and Causal Inference: Moving from Pipette to Population,” presented at the University of Manchester, Manchester, UK, May 2022; at University of Montpellier, Montpellier, France, June 2022; at the London School of Hygiene and Tropical Medicine, London, UK, June 2022; and at the 2024 International Total Survey Error Workshop, Washington, DC, September 2024.
- “Combining Probability and Non-Probability Samples,” Survey Research Center, University of Michigan (virtual), December 2021; 7<sup>th</sup> Annual Italian Conference on Survey Methodology, Perugia, Italy, June 2022.

“Predicting Lag Between First Attempt and First Contact Using Partial Data versus a Bayesian Approach,” 7th International Workshop for Advances In Adaptive and Responsive Survey Design (virtual), December 2021.

“Joint Modeling of Mean and Variance in Longitudinal Data,” presented at the University of Bordeaux, Bordeaux, France, November 2021 and at the Fifth International Workshop on Statistical Analyses of Multi-Outcome Data, Salzburg, Austria, July 2024.

“Using Synergies Between Survey Statistics and Causal Inference to Improve Generalizability of Clinical Trials,” presented at the University of Bath, Bath, UK, October 2021; and at the University of Essex, Colchester, UK, January 2022.

“Assessing Surrogate Paradox Risk in the Meta-Analytic Causal Association Framework,” presented at the 2020 Joint Statistical Meetings (virtual), August 2020, and at the University of Bordeaux, Bordeaux, France, November 2021.

“Responsive Designs: Some Recent Research Findings,” keynote address at the 6th International Workshop For Advances In Adaptive and Responsive Survey Design, Washington, DC, November 2019.

“Combining Data from Probability and Non-probability Surveys,” presented at the National Institute of Statistical Sciences Workshop: Using Surveys to Improve the Representativeness of Nonprobability Samples in Epidemiologic Studies, Washington, DC, March 2019; and at the Division of Biostatistics, Washington University, St. Louis, MO, October 2019.

“Calibrating Big Data for Population Inference: Applying Quasi-randomization Approaches to Naturalistic Driving Data using Bayesian Additive Regression Trees,” presented at BigSurv18, Barcelona, Spain, October 2018; and at the 2019 European Survey Research Association Conference, Zagreb, Croatia, July 2019.

“Combining Probability and Non-Probability Samples: Theory and Practice,” presented at the 2018 Joint Statistical Meetings, Vancouver, Canada, August 2018

“Novel Methods for Incorporating Sample Designs in Bayesian Inference”, presented at the 2018 International Society of Bayesian Analysis, Edinburgh, Scotland, June 2018; at the 2019 Joint Statistical Meetings, Denver, CO, August 2019; and at the 11<sup>th</sup> International Chinese Statistical Association International Conference, Hangzhou, China, December 2019.

“CHARM(ing) ECHO: Developing a Probability Sampling of Michigan Births using Birth Certificate Data,” Environmental Discussion Series, Lifestage Environmental Exposures and Disease Center (M-LEEaD), University of Michigan, Ann Arbor, MI, March 2018.

“Alternative Indicators of the Risk for Nonresponse Bias,” presented at the 2018 Federal Committee on Statistical Methodology Conference, Washington, DC, March 2018.

“Combining Data from Probability and Non-probability Surveys,” presented at the National Center for Health Statistics, Hyattsville, MD, August 2017; and at The Ohio State University, November 2017.

“Penalized Spline of Propensity Methods for Treatment Comparisons,” presented at the 2017 Joint Statistical Meetings, Baltimore, MD, August 2017.

“Estimating Interviewer Effects in the Absence of Interpenetration,” presented at the 2017 American Association of Public Opinion Researchers, New Orleans, LA, May 2017.

“Novel Methods for Incorporating Sample Designs in Bayesian Inference,” presented at the University of Michigan Department of Biostatistics, Ann Arbor, MI, April 2017.

“Accounting for Complex Sample Designs in Multiple Imputation Using the Weighted Finite Population Bayesian Bootstrap,” presented at the Department of Biostatistics and Computational Biology, University of Rochester Medical Center, Rochester, NY, November 2016.

“Synthetic Population Distribution with Application to Disclosure Risk Research,” presented at the 2016 Federal Statistical Research Data Center Conference, Austin, TX, September, 2016.

“Estimating Interviewer Effects in the Absence of Interpenetration,” presented at the 2016 Joint Statistical Meeting, Chicago, IL, August 2016.

“Surrogacy Assessment Using Principal Stratification and a Gaussian Copula Model,” presented at the 28<sup>th</sup> Annual Biometric Conference, Victoria, Canada, July 2016.

“Random Intercept Bayesian Additive Regression Trees: Application to Longitudinal Prediction,” poster presented at the International Society for Bayesian Analysis 2016, Florence, Italy, June 2016.

“Multiple Imputation Using the Weighted Finite Population Bayesian Bootstrap,” presented at the 2015 Joint Statistical Meetings, Seattle, Washington, August 2015, and at the 4<sup>th</sup> IMS Asia Pacific Rim Meeting, Hong Kong, China, June 2016.

“Modelling Menstrual Cycle Length and Variability at the Approach of Menopause by Using Hierarchical Change Point Models,” presented at the Modern Modeling Methods Conference, Storrs, CT, May 2016.

“Principal Stratification is a Tool,” presented at the 2016 Atlantic Causal Conference, New York University, New York, NY, May 2016.

“Unpeaceful Rest: Accounting for Selection Bias due to Censoring by Death,” presented at the Interdisciplinary Seminar in Quantitative Methods, Center for Political Studies, University of Michigan, Ann Arbor, MI, April 2016.

“Residual Variance in Longitudinal Data: Not Just a Nuisance Parameter Anymore,” presented at Department of Biostatistics, Emory University, Atlanta, GA, April 2016.

“Use of Latent Class Models in Joint Modeling of Mean and Variance in Longitudinal Data,” presented at the 5<sup>th</sup> IMS-China International Conference on Statistics and Probability, Kunming, China, July 2015; and at the 11<sup>th</sup> International Conference on Health Care Policy Statistics, Providence, RI, October 2015.

“Causal Inference in Injury Epidemiology: A Case Study,” Center for Clinical Epidemiology and Biostatistics, presented at the University of Pennsylvania Department of Medicine, Philadelphia, PA, May 2015.

“Accounting for Complex Sample Designs via Dirichet Process Mixture Models,” presented at Duke University Department of Statistics, Durham, NC, March 2015.

“Discussion of ‘Beyond Traditional Weighting’,” Canadian Statistical Sciences Institute (CANSSI) Workshop, Montreal, Canada, June 2014.

“Weight Trimming for Generalized Linear Models using Laplace Priors,” presented at the 2014 Ghosh Conference, College Park, MD, May 2014.

“Assessing the Surrogate Paradox,” presented at the 2014 International Biometric Society, Eastern North American Region (ENAR), Washington, DC, March 2014, and at the 2015 International Biometric Society, Western North American Region (WNAR), Washington, DC, June 2015.

“Joint Modeling of Mean and Variance in Longitudinal Data to Predict Health Outcomes,” presented at the Department of Biostatistics, Columbia University, NY, February 2014, and at the 2016 International Biometric Society, Eastern North American Region (ENAR), Austin, TX, March 2016.

“Effect of extreme design weights on small area estimates,” presented at The First Asian ISI Satellite Meeting on Small Area Estimation, Bangkok, Thailand, September 2013.

“Discussion of ‘Innovations in Propensity Score Methods for Addressing New Causal Questions in Observational Studies,’ 2013 Joint Statistical Meetings, Montreal, Canada, August 2013.

“Early Childhood Lead Exposure And Academic Achievement: Evidence From Detroit Public Schools,” presented at the Developing Policy on Environmental Quality, Schools, and Health in Michigan Conference, University of Michigan School of Natural Resources, Ann Arbor, MI, May 2013.

“Joint Modeling of Longitudinal Health Predictors and Cross-sectional Health Outcomes via Mean and Variance Trajectories,” presented at the 2013 International Biometric Society, Eastern North American Region (ENAR), Orlando, FL, March 2013, and the 2013 Joint Statistical Meetings, Montreal, Canada, August 2013.

“Using Principal Stratification to Account for Noncompliance in Randomized Trials with Longitudinal Data,” presented at the London School of Hygiene and Tropical Medicine, London, United Kingdom, November 2012.

“Causal Assessments of Surrogate Markers when Markers and Outcomes are Multivariate Normal,” presented at the London School of Economics, London, United Kingdom, November 2012.

“Accommodating Survey Weights in Multiple Imputation,” presented at the Southampton Statistical Sciences Research Institute, University of Southampton, Southampton, United Kingdom, November 2012.

“Assessing the Causal Effect of Treatment in the Presence of Self-Selection of Dosage,” presented at the 2012 International Society for Bayesian Analysis Conference, Kyoto, Japan, June 2012.

“Combining data from Probability and Non-probability Surveys,” presented at the International Biometric Society, Eastern North American Region (ENAR), Washington, DC, April 2012.

“Accommodating Missingness When Assessing Surrogacy Via Principal Stratification,” presented at the Frontiers in the Analysis of Causal Mechanisms, Harvard University, March 2012; at the 2012 International Chinese Statistical Association Symposium, Boston, MA, June 2012; and at the 2014 Australian Statistical Conference of the Institute of Mathematics Statistics, Sydney, Australia, July 2014.

“Principal Stratification Model for Surrogacy: Accounting for Nonresponse in the True Endpoint,” presented at the Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania School of Medicine, April 2011.

“Discussion of ‘Statistical Analysis Using Combined Data Sources’”, Joint Program in Statistical Methodology Distinguished Lecture, University of Maryland, April 2011.

“Modeling and Classifying Women’s Menopausal Transition Patterns using Menstrual Diary Data”, presented at the International Biometric Society, Eastern North American Region (ENAR), Miami, FL, March 2011.

“Methods for Studying Variability as a Predictor of Health Status,” presented at the Department of Biostatistics, University of Washington, January 2011; at the International Biometric Society, Eastern North American Region (ENAR), Miami, FL, March 2011; at the Department Epidemiology and Biostatistics, University of Pennsylvania School of Medicine, April 2011; and at the Royal Statistical Society South West Local Group Seminar, Plymouth University, Plymouth, United Kingdom, December 2012.

“Inference for Mediation Effects Using Principal Stratification,” presented at the Center for Statistics and the Social Sciences, University of Washington, January 2011.

“Probability Sampling in the 21st Century: Obsolescent or Cutting-Edge?,” presented at the Cox Memorial Lecture, Washington Statistical Society, June 2010.

“Discussion of ‘Outliers in Complex Sample Surveys’,” 57<sup>th</sup> Session of the International Statistical Institute, Durban, South Africa, August 2009.

“Accounting for Complex Sample Designs via Finite Normal Mixture Models,” presented at the 2009 Joint Statistical Meetings, Washington, DC, August 2009; and at the Frontiers of Interface between Statistics and Science, Hyderabad, India, January 2010.

“Accounting for Complex Sample Designs via Dirichlet Process Mixture Models,” presented at the Sample Surveys and Bayesian Statistics Conference, Iowa State University Department of Statistics, Ames, IA, June 2009; at the 8<sup>th</sup> International Indian Statistical Association Joint Statistical Meetings, Visakhapatnam, India, January 2010.

“Mediation for Dichotomous Mediators and Outcomes Using Principal Stratification,” presented at the 2009 International Biometric Society, Eastern North American Region (ENAR), San Antonio, TX, March 2009.

“National Children’s Study Past, Present, and Future: Design and Analysis Issues,” presented at the Henry Ford Health System, Detroit, MI, December 2008.

“Accounting for Complex Sample Designs via Mixture Models,” presented at the Sample Surveys and Bayesian Statistics Conference, Southampton, United Kingdom, August 2008; at the RAND Corporation, Santa Monica, CA, December 2008.

“Discussion of ‘Methods for Mediation Analysis’,” Mid-Atlantic Causal Conference, Baltimore, MD, May 2008.

“Using a Mixture Model for Multiple Imputation in the Presence of Outliers,” presented at the 2007 Joint Statistical Meetings, Salt Lake City, UT, August 2007; at the 2008 International Conference on Health Policy Research, Philadelphia, PA, January 2008; and at the Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania School of Medicine, November 2009.

“Model Averaging Methods for Weight Trimming in Linear Regression Models,” presented at the 2006 Joint Statistical Meetings, Seattle, WA, August 2006; at the 23<sup>rd</sup> Annual International Methodology Symposium, Ottawa, Canada, November 2006; and at the 2007 Federal Committee On Statistical Methodology Research Conference, Arlington, VA, November 2007.

“The Design of the National Children’s Study – National Probability Sample, Medical Center Model, or What?,” presented at the 2<sup>nd</sup> North American Congress of Epidemiology, Seattle, WA, June 2006.

“Stratification on Post-Treatment Variables in Causal Inference: A Potential Outcomes Approach,” presented at the 2005 Joint Statistical Meetings, Minneapolis, MN, August 2005; at the Department of Biostatistics and Computational Biology, University of Rochester Medical Center, Rochester, NY, October 2006; at the Department of Biostatistics, University of Alabama-Birmingham School of Public Health, Birmingham, AL, April 2007; and at the International Chinese Statistical Association Applied Statistics Symposium, Raleigh, NC, June 2007.

“Obtaining Cancer Risk Factor Prevalence Estimates in Small Areas,” presented at Department of Biostatistics and Epidemiology University of Pennsylvania School of Medicine, Philadelphia, PA, September 2004; at the Institute for Social Research, Ann Arbor, MI, March 2005; at the Small Grants Grantee Meeting at the National Cancer Institute, Bethesda, MD, May 2005; and at the 2005 International Conference on Health Policy Research, Boston, MA, October 2005.

“Model-Based Weight Trimming in Generalized Regression Models,” presented at the 2004 Joint Statistical Meetings, Toronto, ONT, August 2004; at the Department of Biostatistics, University of Michigan, Ann Arbor, MI, February 2005; and Westat Inc., Rockville, MD, April 2005.

“Combining Surveys for Small Area Estimates of the Prevalence of Cancer Screening and Risk Factors,” presented at the National Cancer Institute, December 2003.

“A Bayesian Approach to 2000 Census Evaluation using A.C.E. Survey Data and Demographic Analysis,” presented at the Department of Statistics, Wharton School of Business, University of Pennsylvania, December 2001; and at the Iowa State University Department of Statistics, Ames, IA, October 2003.

“Growth Curve Modeling of Placebo and Drug Responses,” presented at 2003 International Biometric Society, Eastern North American Region (ENAR), Tampa, FL, March 2003; and at

Department of Statistics and Mathematics, Wright State University, Dayton, OH, September 2005.

"Obtaining Cancer Risk Factor Prevalence Estimates in Small Areas: Combining Data from the BRFSS and NHIS," presented at the 19<sup>th</sup> Annual International Methodology Symposium, Ottawa, Canada, November 2002; and at 2003 Joint Statistical Meetings, San Francisco, CA, August 2003.

"Discussion of 'Latent Class Analysis of Complex Sample Survey Data: Application to Dietary Data'," Discussion of JASA Applications and Case Studies paper, presented at 2002 Joint Statistical Meetings, New York, NY, August 2002.

"Use of Latent Class Models to Assist in Diagnoses Using Emotional Affect Data," presented at the 2002 Annual Penn-Columbia Statistics in Psychiatry Symposium, University of Pennsylvania School of Medicine, April 2002; at the Department of Biostatistics, Johns Hopkins University School of Public Health, Baltimore, MD, September 2002; and at the Department of Biostatistics, Yale School of Public Health, New Haven, CT, February 2005.

"Model-Based Approaches to Analysis of Disproportional Probability-of-Selection Sample Designs," presented at the Wayne Fuller 70<sup>th</sup> Birthday Conference, Iowa State University Department of Statistics, Ames, IA, June 2001.

"Using Bayesian Models and Non-parametric Regression Techniques to Truncate Sampling Weights", presented at the Bayesian Nonparametrics Summit, University of Michigan Business School, Ann Arbor, MI, July 2001; and at the Center for Statistical Sciences, Brown University School of Medicine, Providence, RI, September 2001.

"On Combining Information from a Census, a Coverage Measurement Survey and Demographic Analysis", presented at the UCLA Department of Biostatistics, Los Angeles, CA, January 2000; at the Pennsylvania State Department of Statistics, State College, PA, February 2000; and at the University of Pennsylvania Department of Biostatistics, Philadelphia, PA, February 2000.

"Model-Based Alternatives to Weight Trimming," presented at the Iowa State University Department of Statistics, Ames, IA, November 1999; and at the Mayo Clinic, Rochester, MN, February 2000.

## **OTHER PAPER/POSTER PRESENTATIONS**

Slocum, E., Whittington, B., Ahmed, S., Power, L.E., **Elliott, M.R.**, Fleischer, N.L. "A population-based surveillance study to track Long COVID prevalence throughout the COVID-19 pandemic—Michigan, March 2020–May 2022," presented at the 2025 Council for State and Territorial Epidemiologists Conference, Grand Rapids, MI, June 2025.

Hu, Y., **Elliott, M.R.**, Meier, H.C.S., Chen, L., Walters, M.E., Sol, K., Zahodne, L.B. "The Impact of Census-Tract Level Mortgage Discrimination on Cognitive Function: Accounting for Measurement Error in Small-Area Data via Joint Modeling," presented at the Society for Epidemiological Research Meeting, Boston, MA, June 2025.

**Elliott, M.R.**, “Obtaining a Probability Sample of a Birth Cohort Via Prenatal Care Practices Using Birth Certificates As a Sampling Frame,” presented at the 2025 American Association of Public Opinion Research, St. Louis, MO, May 2025.

Kerver, J.M., Douglas, C., Hessler, C., Lewis, J., MacKenzie, D., Leventhal, B., Kaplan, Z., Schmidt, R., Parsons, P., Palmer, C., Pearce, E.N., Paneth, N., **Elliott, M.R.** “Estimated Prevalence of Inadequate and Excessive Pregnancy Iodine Intake in the Environmental influences on Child Health Outcomes (ECHO) Cohort,” presented at the Society for Epidemiological Research Meeting (virtual), April 2025.

**Elliott, M.R.**, Carroll, O., Grieve, R., Carpenter, J. “Improving Transportability/Generalizability of Controlled Trials,” presented at the 2025 International Biometric Society, Eastern North American Region (ENAR), New Orleans, LA, March 2025.

Cohen, A.L.\*, **Elliott, M.R.**, Raghuthan, T.E. “A Novel Approach to Accommodate Complex Sampling Designs in Bayesian Analysis, presented at the 2025 International Biometric Society, Eastern North American Region (ENAR), New Orleans, LA, March 2025.

Mendelson, J.\*, **Elliott, M.R.** “Designing Efficient Samples While Accounting for Anticipated Response Rates,” presented at the March 2025 Council of Professional Associations on Federal Statistics Meeting, Washington, DC, March 2025.

Buszkiewicz, J.H., Vander Woude, C., Xie, Y., Cook, S., Usidame, B., Patrick, M.E., **Elliott, M.R.**, Thrasher, J.F., Fleischer, N.L. “Impact of county-level e-cigarette smoke-free air law coverage on e-cigarette use behaviors among US adolescents in the Monitoring the Future Study,” presented at the Society for Research on Nicotine and Tobacco 2025 Annual Meeting, New Orleans, March 2025.

Mistry, R., Bondarenko, I., Brouwer, A., Jeon, J., Tam, J., **Elliott, M.R.**, Levy, D., Meza, R. “Disparities in Transitions Between Tobacco and Nicotine Product Use in the USA By Race/Ethnicity, Educational Attainment, and Their Intersection,” presented at the Society for Research on Nicotine and Tobacco 2025 Annual Meeting, New Orleans, March 2025.

Li, K\*, **Elliott, M.R.**, Si, Y. “Improving generalizability in the Penalized Spline of Propensity Methods for Treatment Comparison,” presented at the 2024 Joint Statistical Meetings, Portland, OR, August 2024.

Valentin-Cortes, M. O’Neill, M.S. **Elliott, M.R.**, Handal, A.J. “Compounding Disasters, Reproductive Health Outcomes and Colonialism: Analysis from Puerto Rico, Texas and Florida, 2017-2022,” presented at the 2024 International Society for Environmental Epidemiology, Santiago, Chile, August 2024.

Shafie Khorassani, F.\*, Taylor, J.M.G., Kaciroti, N., **Elliott, M.R.** “Incorporating Covariates into Measures of Surrogate Paradox Risk,” presented at the 2024 Hangzhou International Conference on Frontiers of Data Science, Hangzhou, China, July 2024.

Chen, I.\*, Wu, Z., Harlow, S.D. Karvonen-Gutierrez, C., Hood, M.M., **Elliott, M.R.** “Estimating Women’s Bone Health Outcomes Across the Menopausal Transition: A Joint Modeling Approach With Covariance Regression,” presented at the International Society for Bayesian Analysis 2024, Venice, Italy, July 2024.

Mendelson, J. \*, **Elliott, M.R.** “Bayesian optimal sample design for establishment surveys with heteroscedasticity,” presented at the at the 7<sup>th</sup> International Conference on Establishment Statistics, Glasgow, UK, June 2024, and at the 2025 American Association of Public Opinion Research, St. Louis, MO, May 2025.

Yu, W. \*, **Elliott, M.R.**, Raghunathan, T.E. “Using Principal Stratification to Detect Mode Effects in a Longitudinal Setting,” presented at the at the 2024 American Association of Public Opinion Research, Atlanta, GA, May 2024, at the 2024 International Francophone Colloquium on Sample Surveys, Esch-sur-Alzette, Luxembourg, November 2024, and at the 2025 International Conference on Health Policy Statistics, San Diego, CA, January 2025.

Mendelson, J. \*, **Elliott, M.R.** “Optimal Allocation under Anticipated Nonresponse,” presented at the 2024 American Association of Public Opinion Research, Atlanta, GA, May 2024, at the 7<sup>th</sup> International Conference on Establishment Statistics, Glasgow, UK, June 2024, and at the DC-AAPOR/WSS 2024 Review Preview Conference, Washington, DC, September 2024.

Yu, M. \*, Wu, Z., Harlow, S., **Elliott, M.R.**, Karvonen-Guitierrez, C.A., Hood, M.. “Joint Modeling of Longitudinal Data and Survival Outcomes via Threshold Regression to Study the Association between Individual-Level Biomarker Variabilities and Survival Outcomes,” presented at the 2024 International Biometric Society, Eastern North American Region (ENAR), Baltimore, MD, March 2024, and at the 2024 Joint Statistical Meetings, Portland, OR, August 2024.

Yu, M. \*, Wu, Z., **Elliott, M.R.** “Measurement and Analysis of Sedentary Behavior Derived from Wearable Sensors,” presented at the 16<sup>th</sup> International Conference of the ERCIM WG on Computational and Methodological Statistics, Berlin, Germany, December 2023.

Roberts, E. \*, Taylor, J.M.G., **Elliott, M.R.** “Surrogacy Validation for Time-to-Event Outcomes with Illness-Death Frailty Models,” presented at the 2023 Joint Statistical Meetings, Toronto, Canada, August 2023.

Yu, M. \*, **Elliott, M.R.**, Wu, Z., Hicken, M. “Bayesian Modeling of Variance of Intensive Biomarker Data as a Predictor of Health Outcomes,” presented at the 2023 Joint Statistical Meetings, Toronto, Canada, August 2023.

Mendelson, J. \*, **Elliott, M.R.** “Computational methods toward fully Bayesian optimal survey sample design,” presented at the 2023 Joint Statistical Meetings, Toronto, Canada, August 2023.

Ong, A. R. \*, **Elliott, M.R.**, Lee, S. “What is important to RDS data collection productivity,” presented at the European Survey Research Association 2023 Conference, Milan, Italy, July 2023.

Ong, A. R. \*, **Elliott, M.R.**, Lee, S. “Measuring Personal Network Size in Respondent Driven Sampling,” presented at the European Survey Research Association 2023 Conference, Milan, Italy, July 2023.

Yu, W. \*, **Elliott, M.R.**, Raghunathan, T.E. “Are interviewer variances equal across modes in mixed-mode studies?,” presented at the European Survey Research Association 2023 Conference, Milan, Italy, July 2023.

Poveda Rey, N.E., **Elliott, M.R.**, Mehta, N., Cunningham, S.A. “A Synthetic Cohort to Study Obesity from Childhood to Mid-Adulthood: A Matching Approach of Two Nationally Representative Cohorts in the United States,” presented at the Population Association of American 2023 Meeting, New Orleans, LA, April 2023.

Yu, M.\*, **Elliott, M.R.**, Wu, Z., Hicken, M. “A Bayesian Approach for Modeling Variance of Intensive Longitudinal Biomarker Data as a Predictor of Health Outcomes,” presented at the 2023 International Biometric Society, Eastern North American Region (ENAR), Nashville, TN, March 2023.

Chen, C.\*, **Elliott, M.R.**, Harlow, S.D. Karvonen-Gutierrez, C., Wu, Z. “Joint Model of Longitudinal Data and Time-to-Event Outcome with a Bayesian Approach: Simulation Study and Application to Women’s Health,” presented at the 2023 International Biometric Society, Eastern North American Region (ENAR), Nashville, TN, March 2023.

Chen, I.\*, Wu, Z., Harlow, S.D. Karvonen-Gutierrez, C., Hood, M.M., **Elliott, M.R.** “Individual variances as a predictor of health outcomes: a hierarchical Bayesian approach,” presented at the 2023 International Biometric Society, Eastern North American Region (ENAR), Nashville, TN, March 2023, and at the 2024 Joint Statistical Meetings, Portland, OR, August 2024.

Hirschtick, J.L., Xie Y., Slocum E., Hirschtick, R.E., Power, L.E., **Elliott M.R.**, Orellana, R.C., Fleischer, N.L. “A statewide population-based approach to examining Long COVID symptom prevalence and predictors,” presented at the Mid-Year Society of Epidemiological Research Conference (virtual), March 2023.

**Elliott, M.R.**, Carroll, O., Carpenter, J., Grieve, R. “Population Outcomes to Improve the Generalization of Experimental Results,” presented at the 2023 International Conference on Health Policy Statistics, Scottsdale, AZ, January 2023.

Mattingly, D.T., Mezuk, B. Neighbors, H., **Elliott, M.R.**, Fleischer, N.L. “Racial/Ethnic Differences in Associations between Internalizing and Externalizing Problems and Latent Classes of Tobacco and Cannabis Use among Young Adults,” presented at the American Public Health Association 2022, Boston, MA, November 2022.

Reeves, A.N., **Elliott, M.R.**, Kavonen-Gutierrez, C., Harlow, S.D., “Selection Bias Masks Racial Differences in Age at Menopause: The Study of Women’s Health Across the Nation (SWAN),” presented at the Gerontological Society of America’s 2022 Annual Scientific Meeting, Indianapolis, IN, November 2022.

Mendelson, J., **Elliott, M.R.**, “Bayesian Stratified Sampling for Establishment Surveys with Uncertain Design Parameters,” presented at the 2022 Federal Committee on Statistical Methodology Conference, Washington, DC, October 2022.

Roberts, E.A.\*, **Elliott, M.R.**, Taylor, J.M.G., “Causal Inference Methods to Validate Surrogate Endpoints with Time-to-Event Data,” presented at the Banff workshop: Statistical Challenges in the Identification, Validation, and Use of Surrogate Markers, Oaxaca, Mexico, August 2022.

Coffey S.\*, **Elliott, M.R.** “Optimizing Data Collection Interventions to Balance Cost and Quality in a Sequential Multimode Survey,” presented at the 2022 Joint Statistical Meetings, Washington, DC, August 2022, and at the at the 2024 American Association of Public Opinion Research, Atlanta, GA, May 2024.

**Elliott, M.R.**, Rafei, A.\*, Flannagan, C.A.C., “Combining Data from Probability and Non-Probability Samples Using Quasi-Randomization,” presented at the 2022 Joint Statistical Meetings, Washington, DC, August 2022.

**Elliott, M.R.**, Chen, I., Wu, Z. “Joint Modeling of Mean and Variance in Longitudinal Data,” presented at the 31<sup>st</sup> Annual Biometric Conference, Riga, Latvia, July 2022.

Mattingly, D.T., Mezuk, B. **Elliott, M.R.**, Fleischer, N.L. “Racial/Ethnic Discrimination and Tobacco Use Outcome among US Adults,” presented at the Society for Epidemiological Research, Chicago, IL, June 2022.

Vander Woude, C. King, E. Hirschtick, J. Titus, A.R., Power, L., **Elliott, M.R.**, McKane, P. “Differential Care-Seeking Behaviors During the Beginning of the Covid-19 Pandemic,” presented at the Society for Epidemiological Research, Chicago, IL, June 2022.

Slocum, E. Xie, Y. Hirschtick, J.L. Power, L.E. **Elliott, M.R.**, McKane, P.L., Fleischer, N.L. “Using Latent Class Analysis to Identify Acute COVID-19 Symptom Clusters and their Association with Long COVID,” presented at the Society for Epidemiological Research, Chicago, IL, June 2022.

Little, R.J.A., Zhou, T., **Elliott, M.R.** “Penalized Spline of Propensity for Treatment Comparisons (PENCOMP),” presented at the 2022 American Causal Inference Conference, Berkeley, CA, May 2022.

Wang, Y.\*, Lee, S., **Elliott, M.R.** “Sample Size Estimation in Respondent-Driven Sampling,” presented at the 2022 American Association of Public Opinion Research, Chicago, IL, May 2022, and at the 2022 Joint Statistical Meetings, Washington, DC, August 2022

Ong A.R.\*, **Elliott, M.R.**, Lee, S. “Who Do Respondents Recruit in Respondent Driven Sampling Studies?,” presented at the 2022 American Association of Public Opinion Research, Chicago, IL, May 2022.

Yu, W.\*, Raghunathan T.E., **Elliott, M.R.** “Improving Inferences Based on Survey Data Collected Using Mixed-Mode Designs,” presented at the 2022 American Association of Public Opinion Research, Chicago, IL, May 2022, and at the 2022 Joint Statistical Meetings, Washington, DC, August 2022.

**Elliott, M.R.**, Carroll, O., Grieve, R., Carpenter, J. “Drawing on Synergies Between Survey Statistics and Causal Inference to Improve the Transportability of Randomized Controlled Trials,” presented at the 2022 American Causal Inference Conference, Berkeley, CA, May 2022.

Roberts, E.\*, **Elliott, M.R.**, Taylor, J.M.G., “Solutions for Surrogacy Validation with Longitudinal Outcomes with Gene Therapy”, presented at the 2022 International Biometric Society, Eastern North American Region (ENAR), Houston, TX, March 2022, and at the 2022 Joint Statistical Meetings, Washington, DC, August 2022.

Chen, I.\*, Wu, Z., Harlow, S.D. Karvonen-Gutierrez, C., Hood, M.M., **Elliott, M.R.** “Variance as a predictor of health outcomes: using subject-level trajectories and residual variability to predict a cross-sectional outcome of interest,” presented at the 2022 International Biometric Society, Eastern North American Region (ENAR), Houston, TX, March 2022.

Parks, M.J., Patrick, M.E., Levy, D.T., Thrasher, J.F., **Elliott, M.R.**, Fleischer, N.L., “Cigarette Pack Price and Its Within-Person Association with Smoking Initiation, Smoking Progression, and Disparities among Young Adults,” presented at the 2022 Society for Research on Nicotine and Tobacco Annual Meeting, Baltimore, MD, March 2022.

Mistry, R., Bondarenko, I., Meza, R., Brouwer, A.F., Jeon J., Levy, D.T., **Elliott, M.R.**, Taylor, J.M.G., Hirschtick, J., Fleischer, N.L., “Latent Transition Analysis of Tobacco Use Frequencies for Multiple Products in US Adults,” Fall 2021 NIH Tobacco Regulatory Science Meeting (Virtual), October 2021, and at the 2022 Society for Research on Nicotine and Tobacco Annual Meeting, Baltimore, MD, March 2022.

West, B.T., **Elliott, M.R.**, Zhang, X., Coffey, S., “The Anchoring Method: Estimation of Interviewer Effects in the Absence of Interpenetrated Sample Assignment,” presented at the 1st International and Interdisciplinary Conference on Spatial Methods (Virtual), September, 2021.

Rafei, A. \*, **Elliott, M.R.**, Flannagan, C.A.C., “Robust Bayesian Inference for Non-Probability Samples Using Gaussian Process of Propensity Prediction,” presented at the 2021 Joint Statistical Meetings (virtual), August 2021; and at the Statistics Canada 2021 International Methodology Symposium (virtual), October 2021.

Won, J.\*,Y., Sanchez, B., **Elliott, M.R.**, “Integrating Conflicting Exposures from Secondary Commercial Data Sources,” presented at the 2021 Joint Statistical Meetings (virtual), August 2021.

Roberts, E. \*, **Elliott, M.R.**, Taylor, J.M.G., “Validating Surrogate Endpoints with Longitudinal Outcomes,” presented at the 2021 Joint Statistical Meetings (virtual), August 2021.

Zhang, X., Wager, J., **Elliott, M.R.**, West, B.T., Coffey, S., “A General Stopping Rule for Survey Data Collection,” presented at the 2021 Joint Statistical Meetings (virtual), August 2021.

**Elliott, M.R.**, Rafei, A. \*, Flannagan, C.A.C., “Combining Data from Probability and Non-Probability Samples Using Penalized Spline of Propensity Prediction,” presented at the 2021 Joint Statistical Meetings (virtual), August 2021.

Rafei, A. \*, Flannagan, C.A.C., **Elliott, M.R.**, “Doubly Robust Inference for Count Data with Varying Exposures in Non-Probability Samples: A Model-Based Approach Based on Gaussian Processes of Propensity Prediction,” presented at the 2021 American Association for Public Opinion Research (virtual), May 2021.

**Elliott, M.R.**, West, B.T. “Separating Interview Effects From Non-Random Case Assignment Via Anchoring,” presented at the 2021 American Association for Public Opinion Research (virtual), May 2021.

Usidame, B., Xie, Y., Thrasher, J.F., Lozano, P., **Elliott, M.R.**, Fong, G.T., Fleischer, N. “The Differential Impact of Tobacco Product Point-of-Sale (POS) Display Bans on Quit Attempts and Smoking Cessation By Sex, Income, and Education: Findings from the ITC Canada Survey,” presented at the 43<sup>rd</sup> Annual Fall Research Conference of the Association for Public Policy and Management, Austin, TX, November 2021.

Roberts, E.\*, **Elliott, M.R.**, Taylor, J.M.G. “Incorporating baseline covariates and longitudinal outcomes to validate surrogate endpoints,” presented at the 2021 American Statistical Association Biopharmaceutical Section Regulatory-Industry Statistics Workshop (virtual), September 2021.

Roberts, E.\*, **Elliott, M.R.**, Taylor, J.M.G. “Incorporating Patient Subgroups During Surrogate Endpoint Validation,” presented at the 2021 International Biometric Society, Eastern North American Region (ENAR) (virtual), March 2021.

Colston, D.C., Cho, B., Thrasher, J.F., Titus, A.R., Xie, Y., Emery, S., **Elliott, M.R.**, Fleischer, N.L. “Anti-Smoking Media Campaigns and Disparities in Smoking Cessation in the United States, 2001-2015,” presented at the Society for Research on Nicotine and Tobacco Annual Meeting (virtual), February 2021.

Titus A.R., Xie Y., Thrasher J.F., Levy D.T., **Elliott M.R.**, Patrick M.E., Fleischer N.L. “A Longitudinal Analysis of Smoke-free Laws and Smoking Disparities Among Young Adults in the United States,” presented at the Society for Research on Nicotine and Tobacco Annual Meeting (virtual), February 2021.

**Elliott, M.R.**, Coffey S.\*, Wagner, J., West, B.T. “Toward a Fully Integrated Responsive Survey Design Methodology,” presented at the BigSurv2020 Conference (virtual), November 2020.

Coffey S.\*, West, B.T., Wagner, J., **Elliott, M.R.** “Leveraging Expert Opinion to Improve Prediction of Daily Response Propensity in a Bayesian Framework for Responsive Survey Design,” presented at the BigSurv2020 Conference (virtual), November 2020.

Wagner, J., **Elliott, M.R.**, West, B.T., Coffey S.\* “Alternative Modeling Approaches to Predicting Costs in a Responsive Design Framework,” presented at the BigSurv2020 Conference (virtual), November 2020.

West, B.T., **Elliott, M.R.**, Wagner, J., Coffey S.\*, Zhang, X. “Improving Bayesian Prediction of Daily Response Propensity in Responsive Design with Data-Driven Priors,” presented at the BigSurv2020 Conference (virtual), November 2020.

Rafei, A.\*, **Elliott, M.R.**, Flannagan, C.A.C. “Robust Inference for Non-Probability Samples When a Benchmark Survey with a Complex Design Is Present: A Synthetic Population Approach with Non-Parametric Bayesian Modeling,” presented at the 2020 Joint Statistical Meetings (virtual), August 2020.

Zhang, X., Wagner, J., **Elliott, M.R.**, West, B.T., Coffey, S.\* “A Bayesian Model-Based Decision Rule in Responsive Survey Design,” presented at the 2020 Joint Statistical Meetings (virtual), August 2020.

West, B.T., **Elliott, M.R.**, Wagner, J., Coffey, S.\*, Zhang, X. “Eliciting Priors for Bayesian Prediction of Daily Response Propensity in Responsive Survey Design: Historical Data Analysis vs. Literature Review,” presented at the 2020 Joint Statistical Meetings (virtual), August 2020.

Rafei, A.\*, **Elliott, M.R.**, Flannagan, C.A.C. “Robust Bayesian Non-Parametric Inference for Non-Probability Samples: An Attempt to Combine Sensor-Based Records with Traditional Survey Data,” presented at the 2020 Joint Statistical Meetings (virtual), August 2020.

Colston, D.C., Titus, A.R., Thrasher J.F., **Elliott M.R.**, Fleischer N.L.. “Area-level Predictors of Tobacco 21 Coverage in the United States Prior to the National Law: Exploring Potential Disparities,” presented at the Society for Research on Nicotine and Tobacco Annual Meeting, New Orleans, LA, March 2020.

Parks, M.J., Patrick, M.E., Levy, D.T., Thrasher J.F., **Elliott M.R.**, Fleischer N.L.. “Tobacco Taxation and Its Impact on Disparities in Smoking Initiation over Time among Young Adults,” presented at the Society for Research on Nicotine and Tobacco Annual Meeting, New Orleans, LA, March 2020.

Titus A.R., Gamarel K.E., Thrasher J.F., Emery S.L., **Elliott M.R.**, Fleischer N.L.. “Exposure to Smoke-free Laws and Televised Anti-Tobacco Media Campaign Ads among Sexual Minorities Compared to the General Population,” presented at the Society for Research on Nicotine and Tobacco Annual Meeting, New Orleans, LA, March 2020.

Jepsen, K.J., Karvonen-Gutierrez, C., Harlow, S.D., Randolph, J., Clines, G.A., Hood, M., **Elliott, M.R.**, Peters, K.W., Harrison, S.L., Cawthon, P.M., Cauley J.A., Greendale, G.A., Karlamangla, A.S., Orwoll, E., “External Bone Size Predicts Age-Changes in Femoral Neck Structure and Mass Leading to Increased Fracture Risk Independent of Bone Mineral Density: Findings from the Study of Women’s Health Across the Nation and the Study of Osteoporotic Fractures in Men,” presented at the American Society for Bone and Mineral Research 2019 Annual Meetings, Orlando, FL, September 2019.

Segal, B.\* , **Elliott, M.R.**, Bruan, T., Jiang, H, Gonzales, R. “Tests of Matrix Structure for Construct Validation”, presented at the 2019 American Psychological Association meeting, Chicago, IL, August 2019.

Sharma, S.\* , **Elliott, M.R.** “Predicting Interviewer Effects Using Paradata,” presented at the 2019 Joint Statistical Meetings, Denver, CO, August 2019.

Little, R.J.A., Zhou, T.\* , **Elliott, M.R.** “Penalized Spline of Propensity,” presented at the 2019 Joint Statistical Meetings, Denver, CO, August 2019.

Lee, S., Ong, A.R., **Elliott, M.R.** “Exploring Mechanisms of Recruitment and Recruitment Cooperation in Respondent-Driven Sampling,” presented at the 2019 Joint Statistical Meetings, Denver, CO, August 2019.

Tan, V.\* , **Elliott, M.R.**, Flannagan, C.A.C. “Robust 'Squared' Estimators to Account for Selection Bias Due to Death in Estimating the Effect of Wealth Shock on Cognition for the Health Retirement Study,” presented at the 2019 Joint Statistical Meetings, Denver, CO, August 2019.

Roberts, E.\* , Taylor, J.M.G., **Elliott, M.R.** “Incorporating Subgroups in a Surrogate Endpoint Setting,” presented at the 2019 Joint Statistical Meetings, Denver, CO, August 2019.

Zhou, T.\* , **Elliott, M.R.**, Little, R.J.A. “Variable Selection in Causal Inference,” presented at the 2019 Joint Statistical Meetings, Denver, CO, August 2019.

Rafei, A.\* , **Elliott, M.R.**, Flannagan, C.A.C. “Bayesian Doubly Robust Adjustment for Finite Population Inference Using Big Data: Application to Naturalistic Driving Studies,” presented at the 2019 Joint Statistical Meetings, Denver, CO, August 2019.

Wager, J., **Elliott, M.R.**, West, B, Coffey, S.. “Using Machine Learning Models to Predict Costs under Alternative Designs in a Responsive Design Framework,” presented at the European Survey Research Organization Meeting 2019, Zagreb, Croatia, July 2019.

Sharma, S., **Elliott, M.R.**. “Can Paradata Predict Interviewer Effects?,” presented at the European Survey Research Organization Meeting 2019, Zagreb, Croatia, July 2019.

Ong, A.I., Lee, S., **Elliott, M.R.**, Chen C. “Relationship between Recruitment Homophily and Variance Estimation for Respondent Driven Sampling Data,” presented at the European Survey Research Organization Meeting 2019, Zagreb, Croatia, July 2019.

Leissou, E., Ridneour, T., Ogden I., **Elliott, M.R.** “Building a Community Sample of New Mothers and Children in a Multi-Pronged Design,” presented at the European Survey Research Organization Meeting 2019, Zagreb, Croatia, July 2019.

Zhou, T. \*, **Elliott, M.R.**, Little R.J.A. “Penalized Spline of Propensity Methods for Treatment Comparisons in Longitudinal Treatment Settings,” presented at the Bayesian Causal Inference Workshop, Columbus, Ohio, June 2019.

Segal, B.\*, **Elliott, M.R.**, Bruan, T., Jiang, H. “P-splines with an L1 penalty for repeated measures”, presented at the 2019 Symposium on Data Science & Statistics, Bellevue, WA, May 2019.

West, B., Wagner, J., **Elliott, M.R.**, Coffey, S\*. “Formulating Prior Information for Bayesian Approaches to Responsive Survey Design,” presented at the 2019 American Association of Public Opinion Research, Toronto, Canada, May 2019.

Lee, S. Chen, C., Ong, A.R., **Elliott, M.R.** “Evaluation of Respondent Driven Sampling for a Web Survey of Racial/Ethnic Minorities,” presented at the 2019 American Association of Public Opinion Research, Toronto, Canada, May 2019.

**Elliott, M.R.**, Rafei, A\*., Flannagan, C.A.C. “Big Data for Finite Population Inference: Calibrating pseudo-weights based on estimated control totals using the General Regression Estimator,” presented at the 2019 American Association of Public Opinion Research, Toronto, Canada, May 2019.

Lee, S., Ong, A.R., Chen, C., **Elliott, M.R.** “Respondent Driven Sampling for Immigrant Populations: An Application to Foreign-Born Korean Americans,” 2019 Comparative Survey Design and Implementation Workshop, Warsaw, Poland, March 2019.

Ong, A.R., Lee, S., **Elliott, M.R.** “Variance Estimation for Respondent Driven Sampling Data,” presented at the 2018 Midwest Association of Public Research Conference, Chicago, IL, November 2018.

Ali, T., **Elliott, M.R.**, Antonucci, T.C., Needham, B.L., Zelner, J.L, Mendes de Leon. C.F. “Cohort Differences in Social Network Types of Older Adults: A Latent Class Approach,” presented at the 2018 Gerontological Society of America Meeting, Boston, MA, November 2018.

Jang, J., Melendez, R., Kim, M., Judd, S., Wadley, V., Colabianchi, N., **Elliott, M.R.**, Manly, J., Clarke, P. “Neighborhood Environments and Racial Disparities in Cognitive Decline with Age,”

presented at the 2018 Gerontological Society of America Meeting, Boston, MA, November 2018.

Little, R.J.A., Zhou, T.\*, **Elliott, M.R.** “A Robust Multiple Imputation Approach to Causal Inference with Confounding by Indication,” presented at the 2018 Joint Statistical Meetings, Vancouver, Canada, August 2018.

Zhou, T. \*, **Elliott, M.R.**, Little, R.J.A. “On Causal Inference in the Presence of Limited Overlap ,” presented at the 2018 Joint Statistical Meetings, Vancouver, Canada, August 2018.

Tan, V.,\* **Elliott, M.R.**, Flannagan, C.A.C. "Robust-squared" Imputation Models Using BART,” presented at the 2018 International Society for Bayesian Analysis, Edinburgh, Scotland, June 2018, and at the 2018 Joint Statistical Meetings, Vancouver, Canada, August 2018.

Ali, T.\*, Needham, B., Zelner, J., Antonucci, T., **Elliott, M.R.**, Mendes de Leon, C. “A Multidimensional Typology of Social Networks of Older Adults: The National Social Life Health and Aging Project,” presented at the 2018 Society of Epidemiological Research, Baltimore, MD, June 2018.

Sharma, S.\*, **Elliott, M.R.** “What Can Computer-generated Paradata Tell Us About the Quality of an Interview?,” presented at the 2018 American Association of Public Opinion Research Annual Meeting, Denver, CO, May 2018.

West, B.T., **Elliott, M.R.**, Mneimneh, Z., Wagner, J., Peytchev A., Trappmann, M. “An Examination of an Interviewer-Respondent Matching Protocol in a Longitudinal CATI Study,” presented at the 2018 American Association of Public Opinion Research Annual Meeting, Denver, CO, May 2018.

Rafei, A\*., Flannagan, C.A.C., **Elliott, M.R.** “Calibrating Big Data for Population Inference: Applying Quasi-randomization Approaches to Naturalistic Driving Data using Bayesian Additive Regression Trees,” presented at the Data Science for Transportation Research Challenge Symposium, Ann Arbor, MI, May 2018, at the 2018 American Association of Public Opinion Research Annual Meeting, Denver, CO, May 2018, and at the 2018 Joint Statistical Meetings, Vancouver, Canada, August 2018.

Lee S., Ong, A.R., **Elliott, M.R.** “Two Applications of Respondent-Driven Sampling: Ethnic Minorities and Illicit Substance Users,” presented at the Workshop on Improving Health Research for Small Populations, National Academy of Sciences, Washington, DC, January 2018.

Coffey, S. \*, **Elliott, M.R.**, Dahlhamer, J. “Predicting Lag Between First Attempt and First Contact Using Partial Data versus a Bayesian Approach,” presented at the 5<sup>th</sup> Workshop on Adaptive and Responsive Survey Design, Ann Arbor, MI, November 2017.

Chen, J. \*, **Elliott, M.R.**, Valliant, R.V. “Calibrating Non-Probability Samples With Probability Samples Using LASSO,” presented at the 2017 Royal Statistical Society Meeting, Glasgow, UK, September 2017.

**Elliott, M.R.**, Tan, V.,\* Flannagan, C.A.C. “Highly Robust Multiple Imputation Models Using BART,” presented at the 2017 Joint Statistical Meetings, Baltimore, MD, August 2017.

Lee, S., **Elliott, M.R.**, Gurtekin, T.S. “Benchmark Assessment of Respondent Driven Sampling Data for Foreign Born Korean Americans,” presented at the 2017 Joint Statistical Meetings, Baltimore, MD, August 2017.

Fischer M., West, B.T., **Elliott, M.R.**, Kreuter, F. “The Impact of Interviewer Effects on Regression Coefficients,” presented at the 2017 American Association of Public Opinion Researchers, New Orleans, LA, May 2017, at the 7<sup>th</sup> Conference of the European Survey Research Association, Lisbon, Portugal, July 2017, and at the Midwestern Association for Public Opinion Research, Chicago, IL, November 2017.

Lee, S, Chung, D, Ahn J-K., He, W., **Elliott, M.R.**, “Respondent Driven Sampling for Immigrant Koreans in the U.S.: Evaluation from the Total Survey Error Perspective,” presented at the 7<sup>th</sup> Conference of the European Survey Research Association, Lisbon, Portugal, July 2017.

Palumbo, A., Pfeiffer, M., Kirk, M, **Elliott, M.R.**, Curry, A.E. “Young Driver Compliance with Graduated Driver Licensing Restrictions Before and After Implementation of a Decal Provision,” presented at the Society for Epidemiologic Research 50<sup>th</sup> Annual Meeting, Seattle, WA, June 2017, and at the Transportation Research Board 97<sup>th</sup> Annual Meeting, Washington, DC, January 2018.

Bondarenko, I., Li, Y., **Elliott, M.R.**, Taylor, J.M.G., “Multiple Imputation Framework to Estimate Causal Effect of Testing on Treatment Decision,” presented at the 2017 Atlantic Causal Conference, Chapel Hill, NC, May 2017.

Sharma, S.\*, and **Elliott, M.R.** “Predicting the Interviewers Behind Interviewer Effects: Exploring the Utility of Computer-generated Paradata to Set Up an Active Interviewer Monitoring System,” presented at the 2017 American Association of Public Opinion Researchers, New Orleans, LA, May 2017.

Kirk M.E., Winston F.W., Metzger K.B., Yerys B.E., Power T.J., **Elliott M.R.**, Curry AE. “Joint and independent associations of ADHD and disruptive behavior disorder with motor vehicle crash risk,” presented at the Pediatric Academic Societies Annual Meeting, San Francisco, CA, May 2017.

Korley, F., Kelen, G., Diaz-Arrasita, R., **Elliott, M.R.**, Falk, H., Rothman, R. “Myocardial Injury Occurs in Traumatic Brain Injury Patients and it is Associated with Poor Outcome,” presented at the William G. Barsan Emergency Medicine Research Forum, University of Michigan Medical School, April 2017.

Segal, B\*., **Elliott, M.R.**, Braun, T., Jiang, H. “P-splines with an  $l_1$  Penalty for Repeated Measures,” presented at the 2017 International Biometric Society, Eastern North American Region (ENAR), Washington, DC, March 2017.

Curry, A., Metzger, A., Kirk, M., **Elliott, M.R.**, Power T., “Joint and Independent Associations of ADHD and Disruptive Behavior Disorder with Motor Vehicle Crash Risk,” presented at the Transportation Research Board 96<sup>th</sup> Annual Meeting, Washington, DC, January 2017.

Tan, Y.V.\*, Flannagan, C.A.C., **Elliott, M.R.**, “Predicting Human Driving Behavior to Help Driverless Vehicles Drive: Random Intercept Bayesian Additive Regression Trees,” presented at

the 2016 Joint Statistical Meetings, Chicago, IL, August 2016, and at the 2017 International Biometric Society, Eastern North American Region (ENAR), Washington, DC, March 2017.

Zhou, T.\*, **Elliott, M.R.**, Little, R.J.A., “A Multiple-Imputation Based Doubly Robust Estimation of Treatment Effects in Longitudinal Studies,” presented at the 2016 International Biometric Society, Eastern North American Region (ENAR), Austin, TX, March 2016, and at the 2017 Atlantic Causal Conference, Chapel Hill, NC, May 2017.

Clarke, P.J., **Elliott, M.R.**, Gallagher N., Sinkewicz M., Magee, W., “Function and Self-Rated Health: The Role of Optimism,” presented at the Gerontological Society of American Annual Meeting, New Orleans, LA, November 2016.

Harlow, S.D., **Elliott, M.R.**, Karvonen-Gutierrez C., Bondarenko, I., Reed, B., Miller J.M., Avis, N.E., Bromberger, J., Mori Brooks, M., Sternfeld, B. “Symptom Clustering Across the Menopausal Transition: Study of Women’s Health Across the Nation (SWAN),” presented at the 15<sup>th</sup> World Congress on Menopause, Prague, Czech Republic, September 2016.

Tan, Y.V.\*, Flannagan, C.A.C., **Elliott, M.R.**, “Predicting Human Driving Behavior to Help Driverless Vehicles Drive: Random Intercept Bayesian Additive Regression Trees,” presented at the 2016 Joint Statistical Meetings, Chicago, IL, August 2016.

Yan, Y.\*, **Elliott, M.R.**, West, B., Waldron, W., “Generating Correlated Synthetic Binary Indicators of Radio Listening Behavior for Long-Term Projections, presented at the 2016 Joint Statistical Meetings, Chicago, IL, August 2016. (Winner of the 2016 Survey Research Methods Section Poster Award at the Joint Statistical Meetings.)

Segal, B.\*, Braun, T. **Elliott, M.R.**, Jiang H., “Fast approximation of small p-values in permutation tests by partitioning the permutation space,” presented at the 2016 Joint Statistical Meetings, Chicago, IL, August 2016.

Zhou, T.\*, **Elliott, M.R.**, Little, R.J.A., “A Multiple-Imputation Based Doubly Robust Estimation of Treatment Effects in Longitudinal Studies,” presented at the 2016 International Biometric Society, Eastern North American Region (ENAR), Austin, TX, March 2016.

Clarke, P.J., Leggett, A., Zivin, K., McCammon, R., **Elliott, M.R.**, Langa, K. “Cohort Differences in Cognitive Functioning: How Much Do Demographics, Education, and Health Explain?,” presented at the Gerontological Society of American Annual Meeting, Orlando, FL, November 2015.

Gonzalez, R., Mejía, S., Dey, R., **Elliott, M.R.**, Hooker, K, Smith, J. “Doing justice to your research question: new approaches to analyzing data with intensive repeated measures,” presented at the Gerontological Society of American Annual Meeting, Orlando, FL, November 2015.

**Elliott, M.R.**, Zhou, H.\*, Raghunathan, T.E. “Multiple Imputation Using the Weighted Finite Population Bayesian Bootstrap,” presented at the 2015 Joint Statistical Meetings, Seattle, WA, August 2015.

Taylor, J.M.G., Conlon, A.S.C.\*, **Elliott, M.R.** “Causal Approaches to Surrogacy,” presented at the 2015 Joint Statistical Meetings, Seattle, WA, August 2015.

Tan, V.T\*, **Elliott, M.R.**, Flannagan, C.A.C. "Development of a Real-Time Prediction Model of Driver Behavior at Intersections Using Kinematic Time Series Data," presented at the 2015 Joint Statistical Meetings, Seattle, WA, August 2015.

West, B.W., **Elliott, M.R.** "Clustering by Interviewer': A Source of Variance Unaccounted for in Single-Stage Health Surveys," presented at the Statistical Society of Canada Annual Meeting, Halifax, Canada, June 2015.

Mirman, J.H., Curry, A., Shultheis, M.T., Winston, F.K., **Elliott, M.R.**, Thiel, M.F Lee, Y-C, Durbin, D.R., "Optimizing Parent-Supervised Practice: Development and Evaluation of TeenDrivingPlan," presented at the 94<sup>th</sup> Transportation Board Annual Meeting, Washington, DC, January 2015.

West, B.W., **Elliott, M.R.** "New Methodologies for the Study and Decomposition of Interviewer Effects in Surveys", presented at the 2014 International Total Survey Error Workshop, Washington, DC, October 2014

Sammel, M.D., \*Jiang, B., Freedman, E.W., **Elliott, M.R.**, Wang, N. "Within-woman Variability in Early Follicular Phase Follicle Stimulating Hormone (FSH) is Associated with Incident Moderate/Severe Hot Flashes in the Menopausal Transition," presented at the American Society for Reproductive Medicine 2014 Annual Meeting, Honolulu, HI, October 2014.

Xi X.\*, **Elliott, M.R.**, "Weight Trimming for Generalized Linear Models using Laplace Priors," presented at the 2014 Joint Statistical Meetings, Boston, MA, August 2014.

Curry A.E., Pfeiffer M.R., Kim K.H., **Elliott M.R.**, Durbin D.R.. "Novel Methods to Estimate Population-Level Young Driver Compliance with Graduated Driver Licensing Restrictions," presented at the Society for Epidemiologic Research Conference, Seattle, WA, June 2014.

Curry A.E., **Elliott M.R.**, Pfeiffer M.R., Kim K.H., Durbin D.R. "Longer-term effects of New Jersey's Graduated Driver Licensing Decal Provision on Young Learner and Intermediate Drivers' Crash Rates," presented at the Society for Epidemiologic Research Conference, Seattle, WA, June 2014.

Huang, X.\*, **Elliott, M.R.**, Harlow S.D. "Multiple Imputation in Complex Sample Designs Using the Weighted Finite Population Bayesian Bootstrap," presented at the 2014 Ghosh Conference, College Park, MD, May 2014

Conlon, A.S.C.\*, Taylor, J.M.G., **Elliott, M.R.** "Surrogacy Assessment Using Principal Stratification and a Gaussian Copula Model," presented at the 2014 Atlantic Causal Inference Conference, Providence, RI, May 2014.

Mneimneh Z.N.\*, Couper M.P., Tourangeau R., Pennell B-E, Heeringa S.G., **Elliott M.R.** "Cultural Variations in the Effect of Interview Privacy and the Need for Social Conformity on Reporting Sensitive Outcomes," presented at the 69<sup>th</sup> American Association for Public Opinion Research Conference, Anaheim, CA, May 2014.

Taylor, J.M.G., Conlon, A.S.C.\*, **Elliott, M.R.** "Surrogacy Assessment Using Principal Stratification," 2014 University of Pennsylvania Annual Conference on Statistical Issues in Clinical Trials, Philadelphia, PA, April 2014.

Xia, X.\*, **Elliott, M.R.** “Dirichlet Process Mixture Extension Model to Accommodate Complex Sample Designs for Linear and Quantile Regression,” presented at the 2014 International Biometric Society, Eastern North American Region (ENAR), Baltimore, MD, March 2014.

Jiang, B.\*, Wang, N., Sammel, M.D., **Elliott, M.R.** “Modeling Short- and Long-Term Characteristics of Follicle Stimulating Hormone as Predictors of Severe Hot Flashes in the Penn Ovarian Aging Study,” presented at the 2014 International Biometric Society, Eastern North American Region (ENAR), Baltimore, MD, March 2014.

Curry A.E., Durbin, D., Pfeiffer M.R., Myers R.K., **Elliott M.R.**, Kim K. “Using Novel Methods to Estimate Population-Level Prevalence and Predictors of Young Drivers’ Compliance with Graduated Driver Licensing Restrictions,” presented at the Transportation Research Board 93<sup>rd</sup> Annual Meeting, Washington DC, January 2014.

Carter P., Flannagan C., Rupp J., **Elliott M.R.**, Tan Y.\*, Banerjee T. “Improving Trauma Triage Models for Motor Vehicle Crashes,” presented at the M-Cubed Symposium 2013, Ann Arbor, MI, November 2013.

Curry A.E., Pfeiffer M.R., Myers R.K., **Elliott M.R.** “Statistical implications of using moving violation data to determine crash responsibility,” presented at the Society for Epidemiologic Research Annual Meeting, Boston, MA, June 2013 and the Association of the Advancement of Automotive Medicine, Quebec City, QC, September 2013.

Zhou, H.\*, **Elliott, M.R.**, Raghuthan, T.E. “An Innovative Multiple Imputation Method to Accommodate Complex Sample Design Features,” presented at the 2013 Joint Statistical Meetings, Montreal, Canada, August 2013.

Lee, S., Gurtekin, T.S., **Elliott, M.R.** “Sensitivity Analysis of Respondent-Driven Sampling,” presented at the 2013 Joint Statistical Meetings, Montreal, Canada, August 2013.

Jiang, B.\*, **Elliott, M.R.**, Sammel, M.D., Wang, N. “Modeling Health Outcomes via Values, Gradients, or Variation of Follicle-Stimulating Hormone in Penn Ovarian Aging Study,” presented at the 2013 Joint Statistical Meetings, Montreal, Canada, August 2013.

Gao, X.\*, **Elliott, M.R.**, Shi, Q., Sargent, D.J. “Principal Surrogacy in a Time-to-Event Setting,” presented at the 2013 Atlantic Causal Conference, Boston, MA, May 2013, and at the 10<sup>th</sup> International Conference of Health Policy Statistics, Chicago, IL, October 2013.

West, B., **Elliott, M.R.** “Frequentist and Bayesian Approaches for Comparing Interviewer Variance Components in Two Groups of Survey Interviewers,” presented at the 68<sup>th</sup> American Association for Public Opinion Research Conference, Boston, MA, May 2013.

Burgard, S.A., **Elliott, M.R.**, House, J.S., Mehta, N.K., Lin, K.Y., Ela, E.J. “Understanding the Declining Female Mortality Advantage in the United States: An Assessment Using Prospective Data,” presented at the 2013 Population Association of America Meeting, New Orleans, LA, April 2013.

Gao, X.\*, **Elliott, M.R.** “Assessing the Causal Effect of Treatment in the Presence of Partial Compliance,” presented at the 2013 International Biometric Society, Eastern North American Region (ENAR), Orlando, FL, March 2013.

Chen, Q.\*, Mao, X., **Elliott, M.R.**, Little, R.J.A. "Inference for Finite Population Quantiles of Non-normal Survey Data Using Bayesian Mixture of Splines," presented at the 2013 International Biometric Society, Eastern North American Region (ENAR), Orlando, FL, March 2013.

Nishimura, R., Wagner, J., **Elliott, M.R.** "Alternative Indicators for the Risk of Nonresponse Bias: A Simulation Study," presented at the 2012 Joint Statistical Meetings, San Diego, CA, July 2012.

Huang, X.\*, **Elliott, M.R.**, Harlow S.D. "Classifications of Women's Menstrual Patterns and Related Epidemiology Explanations," presented at the 2012 Joint Statistical Meetings, San Diego, CA, July 2012.

Li, Y.\*, Taylor, J.M.G., **Elliott, M.R.** "Assessing Mediation Using Principal Stratification in a Meta-Analysis," presented at the the 2012 Joint Statistical Meetings, San Diego, CA, July 2012.

Zhou, H.\*, Raghunathan, T.E., **Elliott, M.R.** "Accounting for Complex Survey Designs in Multiple Imputation to Reduce Item Nonresponse Bias," presented at the European Conference on Quality in Official Statistics 2012, Athens, Greece, May 2012.

Do, P., Wang, L., **Elliott, M.R.** "Investigating the Relationship between Neighborhood Context and Health: A Marginal Structural Modeling Approach," presented at the Population Association of American, San Francisco, CA, May 2012.

Jiang, B. \*, **Elliott, M.R.**, Sammel, M.D., Wang, N. "Joint Modeling of Longitudinal Health Predictors and Cross-Sectional Health Outcomes via Mean and Variance Trajectories," presented at the International Biometric Society, Eastern North American Region (ENAR), Washington, DC, April 2012; and at the 2012 Joint Statistical Meetings, San Diego, CA, July 2012.

Paramsothy, P.\*, Harlow, S.D., **Elliott, M.R.**, Crawford, S.L., Gold, E.B., Greendale, G.A., Randolph, J.F. "High Body Mass Index, Current Smoking, and Chinese Ethnicity Increase Menstrual Cycle Length During The Menopausal Transition," presented at STRAW+10: Addressing the Unfinished Agenda of Staging Reproductive Aging, Washington, DC, September 2011.

Bowers, A. \*, Heeringha, S.G., **Elliott, M.R.**, Duffy, B. "Investigating the Effect of Interviewer Job Attitudes on Turnover and Job Performance in Centralized Telephone Interviewing Facilities," presented at the 2011 Joint Statistical Meetings, Miami, FL, August 2011.

**Elliott, M.R.**, Sammel, M.S., Faul, J. "Variability as a Predictor of Dementia," presented at the 2011 Joint Statistical Meetings, Miami, FL, August 2011.

Zonfrillo M.R., **Elliott M.R.**, Flannagan C.A., Durbin D.R.. "The association between weight and risk of injury for young children in child restraints," presented at the Pediatric Academic Societies' 2011 Annual Meeting, Denver, CO, May 2011.

Zhang, N. \*, **Elliott, M.R.** "Bayesian Quantile Regression in Stratified Sampling," presented at the 2010 Joint Statistical Meetings, Vancouver, BC, Canada, August 2010.

Gao, X. \*, **Elliott, M.R.** "Assessing the Causal Effect of Treatment Dosages in the Presence of Self-Selection," presented at the 2010 Joint Statistical Meetings, Vancouver, BC, Canada,

August 2010; at the 2010 American Public Health Association Meeting, Denver, CO, November 2010; at the International Biometric Society, Eastern North American Region (ENAR), Miami, FL, March 2011; and at the 2011 Joint Statistical Meetings, Vancouver, BC, Canada, August 2011.

Morenoff, J.D., Lin, K.Y., House, J.S., **Elliott, M.R.** “Neighborhood Context and Social Disparities in Waist Size and Body Mass Index,” presented at the 2010 Population Association of America Meeting, Dallas, TX, April 2010.

Li, Y.\*, Taylor, J.M.G., **Elliott, M.R.**, and Mukherjee, B. “Causal Surrogacy Assessment in a Meta Analysis of Colorectal Clinical Trials,” presented at 2010 International Biometric Society, Eastern North American Region (ENAR), New Orleans, LA, March 2010.

**Elliott, M.R.** “Methods for Studying Variability as a Predictor of Health Status,” presented at the 2009 American Public Health Association Conference, Philadelphia, PA, November 2009.

Huang, X.\*, **Elliott, M.R.**, Harlow S.D. “Modeling Menstrual Cycle Lengths at the Approach of Menopause Using Bayesian Change Point Models,” presented at the 2009 Joint Statistical Meetings, Washington, DC, August 2009; at the 2009 American Public Health Association Conference, Philadelphia, PA, November 2009; at the Michigan Biostatistics 50/60 Conference, Ann Arbor, MI, November 2009; and at 2010 International Biometric Society, Eastern North American Region (ENAR), New Orleans, LA, March 2010.

Gao, X.\*, **Elliott, M.R.** “A Markov Compliance Class and Outcome Model for Causal Analysis in the Longitudinal Setting,” presented at the 2009 Joint Statistical Meetings, Washington, DC, August 2009; at the 2009 American Public Health Association Conference, Philadelphia, PA, November 2009; at the Michigan Biostatistics 50/60 Conference, Ann Arbor, MI, November 2009; and at 2010 International Biometric Society, Eastern North American Region (ENAR), New Orleans, LA, March 2010.

Chen, Q.\*, **Elliott, M.R.**, Little, R.J.A. “Bayesian Inference of Finite Population Distribution Functions and Quantiles from Unequal Probability Samples,” presented at the 2009 Joint Statistical Meetings, Washington, DC, August 2009.

**Elliott, M.R.**, Raghunathan, T.E., Li, Y. “Inference for Mediation Effects Using Principal Stratification,” presented at the 2009 Atlantic Causal Conference, Philadelphia, PA, May 2009.

Chen, Q.\*, **Elliott, M.R.**, Little, R.J.A. “Bayesian Inference of Finite Population Distribution Functions and Quantiles from Unequal Probability Samples,” presented at the 2009 International Biometric Society, Eastern North American Region (ENAR), San Antonio, TX, March 2009.

Gao, X.\*, **Elliott, M.R.** “A Markov Compliance Class and Outcome Model for Causal Analysis in the Longitudinal Setting,” presented at the 2009 International Biometric Society, Eastern North American Region (ENAR), San Antonio, TX, March 2009, and at the 2009 Atlantic Causal Conference, Philadelphia, PA, May 2009.

Chen, Q.\*, **Elliott, M.R.**, Little, R.J.A. “Bayesian estimation of mean and quantiles in unequal probability sampling,” presented at the Sample Surveys and Bayesian Statistics Conference, Southampton, United Kingdom, August 2008.

**Elliott, M.R.**, “Understanding Mediation Using Principal Stratification,” presented at the 2008 Joint Statistical Meetings, Denver, CO, August 2008.

Huang, X.\*, **Elliott, M.R.** “Weight Smoothing Models in Clustered Sample Designs,” presented at the 2008 Joint Statistical Meetings, Denver, CO, August 2008.

Chen, Q.\*, **Elliott, M.R.**, Little, R.J.A. “Bayesian Penalized Spline Model-Based Estimation for Finite Population Proportion in Unequal Probability Sampling,” presented at the 2008 Joint Statistical Meetings, Denver, CO, August 2008.

**Elliott, M.R.**, Stettler, N. “Using a Mixture Model for Multiple Imputation in the Presence of Outliers,” presented at the 2008 International Biometric Society, Eastern North American Region (ENAR), Arlington, VA, March 2008.

Chen Q.\*, **Elliott M.R.**, Little R.J.A., Hedgeman E., Gillespie B.W., Garabrant D., “Methods in Estimating Quantiles of Serum Dixon Concentration by Age, with Values Below Limit Detection,” presented at the 27th International Symposium on Halogenated Persistent Organic Pollutants - DIOXIN 2007, Toyko, Japan, September 2007.

Chen Q.\*, Hedgeman E., Little R.J.A., **Elliott M.R.**, Gillespie B.W., Lee S-Y, Hong B., Chang C-W, Olson K., Knutson K, Zwical L, Adriaens P, Demond A, Lepkowski J, Franzblau A, Garabrant D., “Serum 2,3,7,8-TCDD Concentration in a Michigan, USA Population with No Unusual Sources of Exposure,” presented at the 27th International Symposium on Halogenated Persistent Organic Pollutants - DIOXIN 2007, Toyko, Japan, September 2007.

Chen, Q.\*, **Elliott, M.R.**, Little, R.J.A. “Bayesian Penalized Spline Model-Based Estimation of the Finite Population Distribution Function for Unequal Probability Samples,” presented at the 2007 Joint Statistical Meetings, Salt Lake City, UT, August 2007.

Huang, X.\*, **Elliott, M.R.** “Bayesian Weight-Smoothing Models in Clustered or Cross-Classed Sample Designs,” presented at the 2007 Joint Statistical Meetings, Salt Lake City, UT, August 2007.

Taylor, J.M.G., Li, Y., **Elliott, M.R.**, “Assessing Surrogacy in the Counterfactual Framework Using Bayesian Models,” presented at the University of Waterloo Department of Statistics, Waterloo, ONT, and at the 22nd International Workshop on Statistical Modelling, Barcelona, Spain, July 2007.

Mudd, L.M., Skorokhod, V., Nechuta, S., **Elliott M.R.**, Lepkowski J.M., Paneth, N., “Prenatal Care and Delivery Room Staff Attitudes towards Research and the National Children’s Study,” presented at the Society for Pediatric and Perinatal Epidemiology Research, Boston, MA, June 2007.

Nechuta, S., Skorokhod, V., Mudd L.M., **Elliott M.R.**, Lepkowski J.M., Paneth, N., “Attitudes of Pregnant Women to Participation in Research during Pregnancy,” presented at the Society for Pediatric and Perinatal Epidemiology Research, Boston, MA, June 2007.

Senserrick, T.M., Kallan, M.J., **Elliott, M.R.**, Winston, F.K., “At what age should anticipatory guidance be given on the risk of riding with young drivers?,” presented at the Pediatric Academic Annual Society’s Annual Meeting, Toronto, ONT, May 2007.

Taylor, J.M.G., Li, Y., **Elliott, M.R.**, "Predicting the Treatment Effect from a Surrogate Marker Using a Potential Outcomes Approach," presented at the 2007 International Biometric Society, Eastern North American Region (ENAR), Atlanta, GA, March 2007.

**Elliott, M.R.**, "Identifying Latent Clusters of Variability in Longitudinal Data," presented at the 2006 International Biometric Society, Eastern North American Region (ENAR), Tampa, FL, March 2006.

Lin, J.Y.\*, Ten Have, T.R., **Elliott, M.R.** "Longitudinal Nested Compliance Class Model in the Presence of Time-Varying Non-Compliance," presented at the 2006 International Biometric Society, Eastern North American Region (ENAR), Tampa, FL, March 2006.

Donovan, J.M.\*, **Elliott, M.R.**, Heitjan, D.F. "Predicting Event Times in Clinical Trials when Events are Blocked and Masked," presented at the 2006 International Biometric Society, Eastern North American Region (ENAR), Tampa, FL, March 2006.

Donoghue, A., Durbin, D.R., **Elliott, M.R.**, Nadkarni, V. "Pediatric-Specific Hospital Staffing Characteristics are Associated with Improved Survival Outcomes Following Pediatric CPR: A Report from the AHA National Registry of CPR," presented at the 2006 Pediatric Academic Societies' Annual Meeting, San Francisco, CA, April 2006; and at the 35<sup>th</sup> Society of Critical Care Medicine 35<sup>th</sup> Critical Care Conference, San Francisco, CA, January 2006.

Wiebe, D.J, **Elliott, M.R.**, Krafty, R.T., Koper, K.S., Nance, N.L., Branas, C.C. "Homicide and geographic access to gun dealers in the United States," presented at the American Public Health Association Annual Meeting, Philadelphia, PA, December 2005.

Kallan, M.J., Durbin, D.R., **Elliott, M.R.**, Arbogast, K.B., Winston, F.K. "Child occupant injury risk in minivan vs. SUV crashes," presented at the American Public Health Association Annual Meeting, Philadelphia, PA, December 2005.

Zhong, Y.\*, Heitjan, D.F., **Elliott, M.R.**, Kolassa, J.E. "Predicting Session Attendance at the 2005 JSM," presented at the 2005 Joint Statistical Meetings, Minneapolis, MN, August 2005.

Lin, J.\*, Ten Have, T.R., **Elliott, M.R.** "Longitudinal Nested Compliance Class Model in the Presence of Time-Varying Noncompliance," presented at the 2005 Joint Statistical Meetings, Minneapolis, MN, August 2005.

Shah, S.S., Downes, K.J., McGowan, K.L., **Elliott, M.R.**, Bell, M.L., Metlav, J.P. "Time to Blood Culture Positivity in Children with Central Venous Catheters Enteroviral Meningitis," presented at the 2005 Pediatric Academic Societies' Meeting, Washington, DC, May 2005.

Chen, I.G. **Elliott, M.R.**, Durbin, D.R., Winston, F.K. "Socio-demographic Differences in Child Passenger Injury Risk in Motor Vehicle Crashes," presented at the 2004 American Public Health Association Annual Meeting, Washington, DC, November 2004.

Smith, R., Kallan, M.J., Durbin, D.R., Winston, F.K., **Elliott, M.R.** "Influence of Adult Restraint Laws on Pre-Driving Teenagers," presented at the 2004 American Public Health Association Annual Meeting, Washington, DC, November 2004.

Joffe M.M., **Elliott, M.R.** "Bayesian Estimation of the Costs of Optimal Allocation of a Surgical Procedure," presented at the 2004 Joint Statistical Meetings, Toronto, Canada, August 2004.

Chen, I.G., **Elliott, M.R.**, Durbin, D.R., Winston, F.K. "Teen Drivers and Injury Risk to Child Passengers in Crashes," presented at 7<sup>th</sup> Annual Conference on Injury Prevention and Safety Promotion, Vienna, Austria, June 2004.

Wiebe, D.J, Krafty, R.T., Branas, C.C., Koper, K.S., **Elliott, M.R.**, Nance, N.L. "Intentional gun deaths and geographic access to gun dealers in the United States," presented at 7<sup>th</sup> Annual Conference on Injury Prevention and Safety Promotion, Vienna, Austria, June 2004.

Donoghue, A., Durbin, D.R., **Elliott, MR.**, Nadkarni, V. "Effect of Hospital Type on Twenty-four Hour Survival following Pediatric Cardiopulmonary Arrest: A report from the AHA National Registry of CPR," presented at the 2004 Pediatric Academic Societies' Meeting, San Francisco, CA, May 2004; and at the 2005 Pediatric Academic Societies' Meeting, Washington, DC, May 2005.

Brown, L., **Elliott, M.R.**, Durbin D.R. "Diagnostic Accuracy of C-Reactive Protein in Children with Suspected Appendicitis," presented at the 2004 Pediatric Academic Societies' Meeting, San Francisco, CA, May 2004.

Nance, M.L., Arbogast, K.B., Lutz, N., **Elliott, MR.**, Winston, F.K. "Passenger space intrusion as a predictor of significant injury for children involved in motor vehicle crashes," presented at the American Academy of Pediatrics, New Orleans, Louisiana, November 2003.

**Elliott, M.R.** "A Bayesian Approach to 2000 Census Evaluation using A.C.E. Survey Data and Demographic Analysis," presented at the 2003 Federal Conference on Statistical Methodology, Washington, DC, November 2003.

Nance, M.L., Branas, C.C., Wiebe, D.J., **Elliott, M.R.**, Schwab, C.W. "Effect of Ruralization on Unintentional Firearms Mortality in the United States," presented at the 2003 American Public Health Association Annual Meeting, San Francisco, CA, November 2003.

Branas, C.C., Wiebe, D.J., **Elliott, M.R.**, Schwab, C.W. "Rural versus Urban Firearms Death in the United States: Different Causes, Same Results," presented at the 2003 American Public Health Association Annual Meeting, San Francisco, CA, November 2003.

Kallan, M.J., Durbin, D.R., **Elliott, M.R.** "Differential Risk of Injury by Vehicle and Crash Partner Type," presented at the 2003 Joint Statistical Meetings, San Francisco, CA, August 2003.

Winston, F.K., Kassan-Adams, M.L., **Elliott, M.R.**, Kallan, M.J., Durbin, D.R. "Traumatic Stress After Motor Vehicle Crashes: The Need To Assess for Symptoms as Part of Primary Care?" presented at the Presidential Plenary of the 2003 Pediatric Academic Societies' Annual Meeting, Seattle, Washington, May 2003.

Winston, F.K., Simpson, E.M., **Elliott, M.R.**, Woodward, G.A. "Healthcare Utilization by Child Occupants in Motor Vehicle Crashes," presented at the 2002 American Public Health Association Annual Meeting, Philadelphia, PA, November 2002.

**Elliott, M.R.** "Obtaining Cancer Risk Factor Prevalence Estimates in Small Areas: Combining Data from the BRFSS and NHIS," presented at the Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania School of Medicine, October 2002.

Kallan, M.J., Durbin, D.R., **Elliott, M.R.** "Differential Injury Risk in Child Occupants by Passenger Car Classification," presented at the 2002 World Injury Conference, Montreal, QB, May 2002; and at the 2002 Joint Statistical Meetings, New York, NY, August 2002.

Winston, F.K., Durbin, D.R., **Elliott, M.R.** "Healthcare Utilization After Traffic Crashes," presented at the 2002 Pediatric Academic Societies' Annual Meeting, Baltimore, MD, May 2002.

Morris, S.D., **Elliott, M.R.**, Andreko, R., Durbin, D.R., Winston, F.K., Simpson, E. "The Effect of Seating Position on Risk of Injury for Children in Side Impact Crashes," presented at the 2001 American Public Health Association Conference, Atlanta, GA, November 2001.

**Elliott, M.R.**, Raghunathan, T.E., Shope, J.T. "The Effect of Duration and Delay of Licensure on Risk of Crash: A Bayesian Analysis of Repeated Time-To-Event Measures," presented at the 2001 Joint Statistical Meetings, Atlanta, GA, August 2001.

**Elliott, M.R.**, Little, R.J.A. "Estimating Undercount in the 1990 Census by Combining Census, a Coverage Measurement Survey, and Demographic Analysis Data", poster presentation at the 2001 Small Area Estimation Conference in Potomac, MD, March 2001.

**Elliott, M.R.**, Little, R.J.A. "Model-Based Alternatives to Weight Trimming," presented at the 2001 Eastern North American Region meetings of the International Biometric Society, Charlotte, NC, March 2001.

Molnar, L., **Elliott, M.R.**, Shope, J.T., "An Evaluation of Michigan's New Graduated Licensing Policy's Effect on Adolescent Injury Prevention," poster presentation at the 2000 American Public Health Association meeting, Boston, MA, November 2000.

Shope, J.T., **Elliott, M.R.** "The Association Between Substance Use and High-Risk Driving Among Young Women," poster presentation at the 2000 Research Society on Alcoholism Meetings, Denver, CO, June 2000.

**Elliott, M.R.**, Little, R.J.A. "On Combining Information from a Census, a Coverage Measurement Survey and Demographic Analysis", presented at the 1999 Joint Statistical Meetings, Baltimore, MD, August 1999 and 1999 Federal Conference on Statistical Methodology, Washington, DC, November 1999.

**Elliott, M.R.**, Little, R.J.A., Lewitsky, S. "Subsampling Callbacks to Reduce Survey Costs," presented at the 1997 Joint Statistical Meetings, Anaheim, CA, August 1997.

## **OTHER PRESENTATIONS**

"Combining Probability and Non-probability Samples," Future Directions for Social and Behavioral Science Methodologies in the Next Decade, National Academies Workshop, Washington, DC, September 2024.

"Data Integration in Survey and Clinical Trials," workshop presented at the Population Dynamics and Health Program Workshop Series, Institute for Social Research, University of Michigan, Ann Arbor, MI, September 2024.

“Generalizing Results of Randomized Clinical Trials to a Population,” workshop presented at the London School of Hygiene and Tropical Medicine, London, United Kingdom, June 2022.

“Modern Multiple Imputation,” workshop presented at the Eastern North American Region of the International Biometrics Society, Philadelphia, PA, March 2019, and the University of Bordeaux, Bordeaux, France, November 2021.

“Expanding Your Big Data Analytics Toolkit for Biomedical Research,” workshop presented by Global Statcore at the University of Michigan School of Public Health, Addis Ababa, Ethiopia, May-June 2018, January 2020; and Nairobi, Kenya, January 2020.

“Bayesian Inference in Finite Population Settings,” workshop presented at the National Center for Health Statistics, Hyattsville, MD, October 2015.

“Bootstrapping Bayes Estimators in Complex Sample Designs,” Incorporating Survey Weights into Modelling: The State of the Art Workshop, London School of Economics, London, UK, November 2012.

“Applying Principal Stratification When Surrogates and Outcomes are Continuous Measures,” International Bio-Surrogates Workshop, Sydney, Australia, February 2011.

“Analyzing Complex Survey Data,” workshop presented at the 2010 International Biometric Society, Eastern North American Region (ENAR), New Orleans, LA, March 2010.

“Advanced Analysis of Complex Sample Survey Data,” Academy Health Annual Research Meetings, Chicago, IL, June 2009.

“US Census Net Undercount Review,” US Census Bureau, Washington, DC, January 2009.

“Handling Missing Data in Statistical Analyses,” Advanced School and Conference on Statistics and Applied Probability in Life Sciences, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, October 2007.

“Model Averaging Methods for Weight Trimming in Generalized Linear Regression Models,” Survey Methodology Program Brownbag Seminar, Institute for Social Research, University of Michigan, Ann Arbor, MI, November 2006.

“Telephone-Based Study Designs,” University of Pennsylvania Department of Biostatistics and Epidemiology, Philadelphia, PA, May 2005.

“Multiple Imputation in Practice,” Statistical Design and Analysis Conference, Barnett International, Philadelphia, PA, November 2001.

“Introduction to S-Plus,” University of Pennsylvania Department of Biostatistics and Epidemiology, Philadelphia, PA, August 2004, August 2003, August 2001 and August 2000.

Co-taught statistical methods course for International Consortium of Psychiatric Epidemiology (ICPE), Institute for Social Research, Ann Arbor, MI, July 1997.

## SOFTWARE PACKAGES

*lcra*: Joint latent class and regression analysis using MCMC (with Mike Kleinsasser, Zhangchen Zhao, and Bhramar Mukherjee).

*RDSsamplesize*: Respondent-driven sampling sample size and power calculator (with Yibo Wang and Sunghee Lee)

## EDITORIAL POSITIONS

Co-Editor, *Journal of Royal Statistical Society, Series A, (Statistics in Society)*, 2023-.

Co-Editor, *Journal of Survey Statistics and Methodology*, 2018-2021.

Associate Editor, *Journal of Survey Statistics and Methodology*, 2016-2018.

Associate Editor, *Journal of the American Statistical Association*, 2012-2018.

Associate Editor, *Journal of the Royal Statistical Society, Series C (Applied Statistics)*, 2012-2015.

Associate Editor, *Journal of Official Statistics*, 2003-2012.

Editorial Board, *Journal of Safety Research*, 2007-2012.

## TEACHING EXPERIENCE

Design Seminar, Joint Program in Survey Methodology/Michigan Program in Survey Methodology, Winter Semester 2025 (with Michael Traugott)

Applied Sampling, Joint Program in Survey Methodology/Michigan Program in Survey Methodology, Winter Semester 2024.

Introduction to Causal Inference, University of Michigan School of Public Health, Department of Biostatistics. Fall Semester 2020, 2022, 2023, 2024.

Fundamentals of Inference, Michigan Program in Survey Methodology, Fall Semester 2018 (with Yan Li and Trivellore Raghunathan), Fall Semester 2019 (with Yan Li).

Methods and Theory of Sample Design, Joint Program in Survey Methodology/Michigan Program in Survey Methodology/University of Michigan School of Public Health, Department of Biostatistics, Winter Semester 2016, 2017, 2018, 2019.

Advanced Analysis of Repeated Measurements, University of Michigan School of Public Health, Department of Biostatistics, Fall Semester 2010, 2014.

Applied Bayesian Inference, University of Michigan School of Public Health, Department of Biostatistics, Winter Semester 2000, 2010.

Doctoral Seminar, Joint Program in Survey Methodology/Michigan Program in Survey Methodology, Fall Semester 2009 (with Roger Tourangenau), Fall Semester 2010 (with Roger Tourangenau), Fall Semester 2013 (with Frauke Kreuter), Winter Semester 2014 (with Frauke Kreuter), Fall Semester 2014 (with Fred Conrad), Winter Semester 2015 (with Frauke Kreuter).

Design and Analysis of Biostatistical Investigations, University of Michigan School of Public Health, Department of Biostatistics, Winter Semester 2009 (with Jeremy Taylor), Winter Semester 2012 (with Brisa Sanchez), Winter Semester 2014 (with Tom Braun), Winter Semester 2020 (with Jeremy Taylor and Phil Boonstra).

Fundamentals of Survey Methodology, Michigan Program in Survey Methodology, Fall Semester 2008, 2009, 2010 (with Mick Couper, Fred Conrad, Eleanor Singer).

Regression Models in Complex Sample Design Settings, Joint Program in Survey Methodology/Michigan Program in Survey Methodology, Fall Semester 2007, 2008, 2011.

Analysis of Survey Data III, Institute for Social Research Summer Institute, July 2006, 2007 (with Marc Musick, Steve Gulyas).

Applied Statistics II: Extensions for Linear Regression, University of Michigan School of Public Health, Department of Biostatistics, Winter Semester 2006, 2007, 2008.

Applied Bayesian Statistics, University of Pennsylvania School of Medicine, Department of Biostatistics and Epidemiology, Spring Semester 2002, 2004.

Generalized Linear Models, University of Michigan School of Public Health Department of Biostatistics, Winter Semester 2000 (with Mark Becker).

#### **POST-DOCTORAL ADVISEES**

Anna Conlon (with Jeremy Taylor), Biostatistics, University of Michigan, 2013-2014.

#### **DOCTORAL STUDENT THESIS ADVISEES**

Anne Cohen (with Trivellore Raghunathan), Survey Methodology, University of Michigan, 2023- (Winner, GSS/SSS/SRMS 2025 Joint Statistical Meeting Travel Award)

Joshua Wasserman (with Ben Hansen), Statistics, University of Michigan, 2023-

Mingyan Yu (with Zhenke Wu), Biostatistics, University of Michigan, 2022-

Katherine Lin (with Yajuan Si), Biostatistics, University of Michigan, 2022-2024 (Mathematical Statistician, Food and Drug Administration)

Wenshan Yu (with Trivellore Raghunathan), Survey Methodology, University of Michigan, 2021-2024 (Post-doctoral researcher, Duke University)

Irena Chen (with Zhenke Wu), Biostatistics, University of Michigan, 2020-2023 (Post-doctoral researcher, Max Plank Institute for Demographic Research)

Yibo Wang, Biostatistics, University of Michigan, 2020-2023 (Winner, GSS/SSS/SRMS 2022 Joint Statistical Meeting Student Paper Competition) (Senior Research Statistician, AbbVie, Inc.)

Ai Rene Ong (with Sunghye Lee), Survey Methodology, University of Michigan, 2020-2022 (Winner, Best Application Presentation, 2022 Michigan Student Symposium for Interdisciplinary Statistics Sciences) (Survey Methodologist, American Institutes for Research)

Jung Yeon Wong (with Brisa Sanchez), Biostatistics, University of Michigan, 2019-2022 (Winner, 2019 American Public Health Association Statistics Section Student Awards) (Mathematical Statistician, Food and Drug Administration)

Emily Roberts (with Jeremy Taylor), Biostatistics, University of Michigan, 2018-2022 (Winner, 2019 Michigan Institute for Data Science Symposium Student Poster Award; Winner, Rackham Pre-Doctoral Fellowship 2021-2022; Honorable Mention, Excellence in Research Award, University of Michigan Department of Biostatistics 2021; Winner, Lifetime Data Science Section of the ASA 2023 Student Paper Competition) (Assistant Professor, Department of Biostatistics, University of Iowa)

Johnathan Mendelson, Survey Methodology, University of Maryland, 2018-2023 (Winner, DC-AAPOR Student Paper Competition; Winner, GSS/SSS/SRMS 2024 Joint Statistical Meeting Student Paper Competition) (Research Statistician, Bureau of Labor Statistics)

Ali Rafei, Survey Methodology, University of Michigan, 2018-2021 (Winner, 2018 Allen McCutcheon Award, Midwest Association of Public Opinion Research; Winner, GSS/SSS/SRMS 2019 Joint Statistical Meeting Travel Award; Winner, GSS/SSS/SRMS 2020 Joint Statistical Meeting Student Paper Competition; Winner, 2020 Edward C. Bryant Scholarship for an Outstanding Graduate Student in Survey Statistics) (Research Scientist, Meta)

Stephanie Coffey, Survey Methodology, University of Maryland, 2017-2020. (Senior Mathematical Statistician, US Census Bureau)

Vincent Tan, Biostatistics, University of Michigan, 2015-2019 (Winner, 2015 Transportation Research Board Data Analysis Contest; Winner, 2017 Joint Statistical Meetings Survey Methods Section SPEED poster competition) (Senior Biostatistician II, Vertex Pharmaceuticals)

Tingting Zhou (with Roderick Little), Biostatistics, University of Michigan, 2015-2019. (Staff Fellow, Food and Drug Administration)

Sharan Sharma, Survey Methodology, University of Michigan, 2015-2018 (Winner, 2017 American Association of Public Opinion Research Student Travel Award; Winner, Best Oral Presentation, 2018 Michigan Student Symposium for Interdisciplinary Statistics Sciences; Winner, GSS/SSS/SRMS 2019 Joint Statistical Meeting Travel Award) (Assistant Research Professor, Department of Sociology, University of Maryland)

Brian Segal (with Tom Braun and Hui Jiang), Biostatistics, University of Michigan, 2014-2017 (Winner, Rackham Pre-Doctoral Fellowship 2016-2017; Winner, 2017 Biometrics Section Student Paper Award, 2017 Joint Statistical Meetings) (Senior Statistician, Indigo Ag)

Jack Chen, Survey Methodology, University of Michigan, 2014-2015 (Principal Data Scientist, Amazon, Inc.)

Xi Xia, Biostatistics, University of Michigan, 2010-2015 (Data Scientist, Ford Motor Credit)

Hanzhi Zhou (with Trivellore Raghunathan) , Survey Methodology, University of Michigan, 2009-2014 (Statistician, Mathematica Policy Research)

Bei Jiang (with Naisyin Wang), Biostatistics, University of Michigan, 2011-2014 (Associate Professor, University of Alberta Department of Statistics)

Anna Conlon (with Jeremy Taylor), Biostatistics, University of Michigan, 2011-2013 (Medical School Resident, University of Michigan School of Medicine)

Zeina Mneimneh (with Steve Heeringha), Survey Methodology, University of Michigan, 2009-2013 (2013 AAPOR Janet A. Harkness Student Paper Award Winner) (Quantitative User Experience Researcher, Meta)

Qi Dong (with Trivellore Raghunathan), Survey Methodology, University of Michigan, 2009-2012 (Senior Data Scientist, Discord)

Xin Gao, Biostatistics, University of Michigan, 2008-2012 (2010 APHA Statistics Section Student Research Competition Winner) (Mathematical Statistician, Food and Drug Administration)

Shelby Huang, Biostatistics, University of Michigan, 2007-2010 (Director, Alexion Pharmaceuticals)

Qixuan Chen (with Roderick Little), Biostatistics, University of Michigan, 2006-2009 (2009 E.C. Bryant Scholarship Winner) (Associate Professor, Department of Biostatistics, Columbia University)

Yun Li (with Jeremy Taylor), Biostatistics, University of Michigan, 2006-2008 (Associate Professor, University of Pennsylvania Department of Biostatistics, Epidemiology, and Informatics)

Julia Lin, Biostatistics, University of Pennsylvania, 2004-2006. (Staff Applied Scientist, Samsara)

Mark Donovan (with Daniel Heitjan), Biostatistics, University of Pennsylvania, 2003-2006. (Senior Director, Biostatistics, Bristol-Meyers-Squibb)

## **OTHER STUDENT ADVISING**

### Research Assistant

Yueying Hu, University of Michigan, 2023-

Mingyan Yu, Biostatistics, University of Michigan, 2022-

Chen Chen, Biostatistics, University of Michigan, 2021-2022

Irena Chen, Biostatistics, University of Michigan, 2021-2023

Yibo Wang, Biostatistics, University of Michigan, 2020-2023

Jung Yeon Won, University of Michigan, 2019-2022

Sharanya Chandran, Biostatistics, University of Michigan, 2018

Yuqi Zhai, Biostatistics, University of Michigan, 2017-2018

Yuqing Lin, Biostatistics, University of Michigan, 2016-2017

Ali Rafei, Survey Methodology, University of Michigan, 2016-2021  
Ronak Dey, Biostatistics, University of Michigan, 2014-2015  
Brian Segal, Biostatistics, University of Michigan, 2013-2017  
Sharan Sharma, Survey Methodology, University of Michigan, 2013-2018  
Vincent Tan, Biostatistics, University of Michigan, 2013-2018  
Hanzhi Zhou, Survey Methodology Program, University of Michigan, 2011-2013  
Xi Xia, Biostatistics, University of Michigan, 2010-2012  
Bei Jiang (with Lu Wang), Biostatistics, University of Michigan, 2009-2012  
Angelo Karaboyas, Biostatistics, University of Michigan, 2009-2010  
Xin Gao, Biostatistics, University of Michigan, 2008-2011  
Alexa Resler, Biostatistics, University of Michigan, 2008  
Xiaobi Huang, Biostatistics, University of Michigan, 2007-2010  
Jack Chen, Biostatistics, University of Michigan, 2005-2007  
Ye Zhong, Biostatistics, University of Pennsylvania, 2004-2005

#### Thesis Committee

Jillian Baker, Epidemiology, University of Michigan, 2023-  
Eskira Kahsay Epidemiology, University of Michigan, 2023-  
Mislael Valentin Cortes, Epidemiology, University of Michigan, 2022-  
Xinyu Zhang, Survey Methodology, University of Michigan, 2022-2023  
Fatema Shafie Khorassani, Biostatistics, University of Michigan, 2021-2023  
Delvon Mattingly, Epidemiology, University of Michigan, 2021-2023  
Kelly Speith, Biostatistics, University of Michigan, 2020  
Micha Fischer, Survey Methodology, University of Michigan, 2018-2023  
Alexis Reeves, Epidemiology, University of Michigan, 2018-2021  
Andrew Mercer, Survey Methodology, University of Maryland, 2017-2018  
Dongqing Wang, Epidemiology, University of Michigan, 2017-2019  
Talha Ali, Epidemiology, University of Michigan, 2017-2019  
Adam Hall, Statistics, University of Michigan, 2016-2019  
Paul Imbriano, Biostatistics, University of Michigan, 2016-2018  
Zhuqing Liu, Biostatistics, University of Michigan, 2015-2016  
Lindsey Pool, Epidemiology, University of Michigan, 2014-2015  
Jihyun Cho, Epidemiology, University of Michigan, 2014-2016  
Pangaja Paramsothy, Epidemiology, University of Michigan, 2011-2012  
Sahar Zangeneh, Statistics, University of Michigan, 2010-2012  
Carrie Hosman, Statistics, University of Michigan, 2010-2011  
Nanhua Zhang, Biostatistics, University of Michigan, 2009-2011  
Kimberly Henry, Survey Methodology, University of Maryland, 2009-2011  
Timothy Kennel, Survey Methodology, University of Maryland, 2009-2013  
Dan Liao, Survey Methodology, University of Maryland, 2009-2010  
Lauretta Ovadje, Environmental Health Sciences, University of Michigan, 2008-2013  
Jian Zhu, Biostatistics, University of Michigan, 2008-2016  
Rebecca Andridge, Biostatistics, University of Michigan, 2008-2009  
Yan Zhou, Biostatistics, University of Michigan, 2008-2009  
Michael Bader, Sociology, University of Michigan, 2008-2009  
Mandy Yu, Survey Methodology, University of Michigan, 2007-2008  
Di An, Biostatistics, University of Michigan, 2007-2008  
Alli Bell, Education, University of Michigan, 2006-2010  
Andrea Steege, Epidemiology, University of Michigan, 2006-2008  
Mary H. Freire de Carvalho, Epidemiology, University of Michigan, 2006-2008

Gerardo Alvarez, Epidemiology, University of Michigan, 2006  
Jessica Faul, Epidemiology, University of Michigan, 2005-2006  
Ben Leiby, Biostatistics, University of Pennsylvania, 2004-2006  
Gui-shaug Zhong, Biostatistics, University of Pennsylvania, 2003-2004  
Zahnyun Zhao, Statistics, University of Pennsylvania, 2003

#### Academic Advisor

Yuchen Ding, Program in Surveys and Data Science, University of Michigan, 2024-  
Zhaoyun Fan, Program in Surveys and Data Science, University of Michigan, 2024-  
Yujing Jiang, Program in Surveys and Data Science, University of Michigan, 2024-  
Angela Lu, Program in Surveys and Data Science, University of Michigan, 2024-  
Jay Kim, Program in Surveys and Data Science, University of Michigan, 2024-  
Kristin Ma, Program in Surveys and Data Science, University of Michigan, 2024-  
Zian Lin, Biostatistics, University of Michigan, 2024-  
Yu Qing, Biostatistics, University of Michigan, 2024-  
Shuyue Si, Biostatistics, University of Michigan, 2024-  
Suyuan Wang, Biostatistics, University of Michigan, 2024-  
Ya Wang, Biostatistics, University of Michigan, 2024-  
Yingchen Zhang, Biostatistics, University of Michigan, 2024-  
Ang Li, Program in Surveys and Data Science, University of Michigan, 2023-  
Mingrui Li, Biostatistics, University of Michigan, 2022-2024  
Yijun Guo, Biostatistics, University of Michigan, 2022-2024  
Yifei Dai, Biostatistics, University of Michigan, 2022-2024  
Junzhi Sun, Biostatistics, University of Michigan, 2022-2024  
Casey Schmidt, Biostatistics, University of Michigan, 2022-2024  
Caitlin Seibel, Biostatistics, University of Michigan, 2022-2024  
Chia Wen Cheng, Program in Surveys and Data Science, University of Michigan, 2022- 2024  
Carlos Cristiano, Program in Surveys and Data Science, University of Michigan, 2022-2024  
Sihle Khanyile, Program in Surveys and Data Science, University of Michigan, 2022-2024  
Longrong Pan, Program in Surveys and Data Science, University of Michigan, 2022-2024  
Wenqing Qian, Program in Surveys and Data Science, University of Michigan, 2022-2024  
Zhaoyu Yao, Program in Survey and Data Science, University of Michigan, 2022-2024  
Spencer Hauptert, Biostatistics, University of Michigan, 2020-2022  
Emily Friedman, Biostatistics, University of Michigan, 2020-2022  
Chen Chen, Biostatistics, University of Michigan, 2020-2022  
Jenni Kim, Biostatistics, University of Michigan, 2019-2021  
Tiansheng Shan, Biostatistics, University of Michigan, 2019-2020  
Jesus Alberto Arrue Buendia, Survey Methodology Program, University of Michigan, 2019-2020.  
Tianyi Xie, Data Science, University of Michigan, 2018-2019  
Bowden Yin, Data Science, University of Michigan, 2018-2019  
Xiangyu Fan, Data Science, University of Michigan, 2018-2019  
Yanlin Yang, Data Science, University of Michigan, 2018-2019  
Yixi Li, Survey Methodology Program, University of Michigan, 2018-2020  
Lakhpreet Gill, Survey Methodology Program, University of Michigan, 2017-2018  
Joseph Naiman, Biostatistics, University of Michigan, 2014-2018  
Jingshu Xu, Biostatistics, University of Michigan, 2014-2015  
Rui Wu, Biostatistics, University of Michigan, 2013-2015  
Ashley Cotton, Biostatistics, University of Michigan, 2013  
Jane Park, Survey Methodology Program, University of Michigan, 2011-2012  
Pawel Paczuski, University of Michigan, 2011-2012

David Kim, Biostatistics, University of Michigan, 2010-2012  
Hai Shu, Biostatistics, University of Michigan, 2010-2011  
Laura Helmkamp, Biostatistics, University of Michigan, 2010-2012  
Uiyong Kim, Survey Methodology Program, University of Michigan, 2010-2012  
Angelo Karaboyas, Biostatistics, University of Michigan, 2009-2010  
Zaoli Zhang, Survey Methodology Program, University of Michigan, 2009-2011  
Hyun Jung Lee, Survey Methodology Program, University of Michigan, 2009-2011  
Jack Chen, Survey Methodology Program, University of Michigan, 2007-2010  
Su Chen, Biostatistics, 2007-2010  
Chan Zhang, Survey Methodology Program, University of Michigan, 2007-2009  
Lynette Zickl, Biostatistics, 2007-2009  
Kevin Chang, Biostatistics, 2007-2009  
Meihua Wu, Biostatistics, 2007-2008  
Erica Zawacki, Survey Methodology Program, University of Michigan, 2006-2007  
Maria Larkina, Biostatistics, University of Michigan, 2006-2007  
Fei Wang, Survey Methodology Program, University of Michigan, 2006-2007  
Jing Su, Biostatistics, University of Michigan, 2006-2007  
Robin Ayoub, Biostatistics, University of Michigan, 2006-2007  
Yizi Zhang, Survey Methodology Program, University of Michigan, 2006-2007  
Jeffrey Wing, Biostatistics, University of Michigan, 2005-2006  
Robert Krafty, Biostatistics, University of Pennsylvania, 2002-2003  
Li Qin, Biostatistics, University of Pennsylvania, 2000-2002

Biostatistics Advisor

Julie Maslowsky, Psychology, University of Michigan, 2009-2011  
Pearl Lee, Clinical Research Design and Statistical Analysis, University of Michigan, 2007-2009  
Marina Catalozzi, Epidemiology, University of Pennsylvania, 2004-2012  
Shamir Shah, Clinical Epidemiology, University of Pennsylvania, 2004-2007  
Sandra Schwab, Clinical Epidemiology, University of Pennsylvania, 2005  
John Sun, Clinical Epidemiology, University of Pennsylvania, 2004-2005  
Douglas Ivins, Clinical Epidemiology, University of Pennsylvania, 2004  
Aaron Donohue, Clinical Epidemiology, University of Pennsylvania, 2002-2005  
Linda Brown, Clinical Epidemiology, University of Pennsylvania, 2002-2005  
Steven Kawet, Clinical Epidemiology, University of Pennsylvania, 2001-2004  
Athena Zuppa, Clinical Epidemiology, University of Pennsylvania, 2001-2004  
Marsha Covitz, Clinical Epidemiology, University of Pennsylvania, 2001-2005

NIH Career Development Advisor

Aleda Leis, Department of Epidemiology, University of Michigan, 2023-  
Amanda Leggett, Department of Psychiatry, University of Michigan, 2017-2023

NIH Pre-Doctoral Fellowship Advisor

Alexis Reeves, Department of Epidemiology, University of Michigan, 2019-2021

## **ACADEMIC SERVICE**

### Biostatistics Core

Member, Global Stat Core, University of Michigan School of Public Health

### Training Grants

Member, T32 Public Health Aging Executive Committee, 2011-2024.

### Committees

Search Committee (Chair), Survey Methodology Program, University of Michigan, 2023-2024

Academic Committee on Appointment and Rank, University of Michigan School of Public Health, 2023-

Search Committee (Chair), Department of Biostatistics, University of Michigan, 2023-

Launch Committee (Colin Fogarty), Department of Statistics, University of Michigan, 2023

Junior Search Committee (Chair), Department of Biostatistics, University of Michigan, 2022-2023

Senior Search Committee (Chair), Department of Biostatistics, University of Michigan, 2022-2023

Awards Committee, Department of Biostatistics, University of Michigan School of Public Health, 2019-2020

University of Michigan Masters of Data Science Committee, 2016-2019

University of Michigan Grievance Committee, 2016-2018

University of Michigan Data Security Oversight Committee, 2016-2019

Advisory Committee on Academic Programs, University of Michigan School of Public Health, 2016-2021

University of Michigan Transportation Research Institute Advisory Committee, 2015-2017

Committee on Undergraduate Programs, University of Michigan School of Public Health, 2015-2021

Curriculum Committee, Department of Biostatistics, University of Michigan School of Public Health, 2005-2007, 2012-2021 (Chair 2015-2021)

Practice Committee, University of Michigan School of Public Health, 2008-2016.

Senior Staff Advisory Committee, Institute for Social Research, 2010-2012.

Chair, Student Affairs Committee, Department of Biostatistics, University of Michigan School of Public Health, 2007-2012.

Candidacy Committee, Department of Biostatistics, University of Michigan School of Public Health, 2007-2012.

Summer Institute Advisory Committee, Survey Research Center, University of Michigan Institute for Social Research, 2005-.

Seminar Committee, Department of Biostatistics, University of Michigan School of Public Health, 2005-2007.

Symposium Planning Committee, University of Michigan School of Public Health, 2006, 2010.

Executive Committee, Division of Biostatistics, University of Pennsylvania School of Medicine Department of Biostatistics and Epidemiology, 2004-2005.

Service Center Committee, University of Pennsylvania School of Medicine Department of Biostatistics and Epidemiology, 2002-2005.

Chair, Student Computing Committee, Division of Biostatistics, University of Pennsylvania School of Medicine Department of Biostatistics and Epidemiology, 2001-2005.

Admissions Committee, Division of Biostatistics, University of Pennsylvania School of Medicine Department of Biostatistics and Epidemiology, 2000-2005.

Student Funding Committee, Division of Biostatistics, University of Pennsylvania School of Medicine Department of Biostatistics and Epidemiology, 2000-2002.

Computing Committee, Division of Biostatistics, University of Pennsylvania School of Medicine Department of Biostatistics and Epidemiology, 2000-2002.

#### Advisor/Director

Program Coordinator, Survey Methodology Program, Institute for Social Research, 2010-2018.

Faculty Director, Statcom@umich (Winner of 2018 University of Michigan Student Leadership Professional Organization of the Year) (co-director with Cathy Spino, 2015-2018), 2007-2018.

Faculty Advisor, Michigan Student Symposium for Interdisciplinary Statistical Sciences, 2007-2012.

### **PROFESSIONAL SERVICE**

#### National Academies Panels

Panel on the Review and Evaluation of the 2014 Survey of Income and Program Participation Content and Design, 2014-2018.

National Institute for Statistical Science Panels

National Center for Education Statistics, National Postsecondary Student Aid Study Design Panel 2016.

Department Review Panels

Biostatistics Branch of National Cancer Institute, Intramural Program, June 2018.

Grant Reviews

PCORI Grant Reviewer, April 2021.

National Institute of Drug Abuse CTN Protocol Review, March 2020.

PCORI Grant Reviewer, May 2016.

Statistical Grant Reviewer, National Institute of Health Community Influences on Health Behavior, 2011-2015 (Temporary Member October 2010).

Statistical Grant Reviewer, National Institute of Health AIDS Clinical Studies and Epidemiology (Temporary Member), November 2007.

Statistical Grant Reviewer, American Cancer Society's Health Policy and Health Services Research Committee (Temporary Member), January 2007.

Statistical Grant Reviewer, National Institute of Health Biostatistics Methods and Research Design (Temporary Member), October 2014, October 2005, February 2005.

Statistical Grant Reviewer, National Institute of Health Special Emphasis Panels, November 2024 (2), May 2019, January 2014, March 2011, November 2006, March 2004, March 2003.

Statistical Grants Reviewer, National Science Foundation, April 2010, June 2009, October 2005, May 2004.

Conference Organizing

2025 American Causal Inference Conference Organizing Committee

24<sup>th</sup> Summer Working Group on Model-Based Clustering, Ann Arbor, MI: Organizing Committee

Advances in Causal Inference, Survey Statistics, Disclosure Risk, and Missing Data: A Conference in Honor of Rod Little's 65<sup>th</sup> Birthday, Ann Arbor, MI: Chair.

2011 Atlantic Causal Conference, Ann Arbor, MI: Co-Chair

Joint Statistical Meetings 2010, Vancouver, Canada: Survey Methodology Chair.

7th International Conference on Health Policy Research (ICHPR) 2008, Philadelphia, PA: Executive Committee Member.

Joint Statistical Meetings 2005, Minneapolis, MN: General Methodology Chair.

Eastern North American Biometrics Society 2004 Meeting, Pittsburgh, PA: ASA Survey Methodology Representative.

#### Committee and Board Membership

Stavros Niarchos Foundation Global Center for Child and Adolescent Mental Health at the Child Mind Institute Global Survey Initiative Scientific Advisory Board, 2023-

Member, Data Safety and Monitoring Board, "Penn INSPIRE study," PI: Greg Brown, M.D., University of Pennsylvania School of Medicine, 2022-

Member, Savage Award Committee, 2018.

Chair, Data Safety and Monitoring Board, "PONDER-ICU Study," PI: Scott Halpern, M.D., University of Pennsylvania School of Medicine, 2017-2021.

Member, Data Harmonization Working Group, Environmental Influence on Child Health Outcomes (ECHO) Program, 2016-2022

Member, Data Analysis Working Group, Environmental Influence on Child Health Outcomes (ECHO) Program, 2016-2022

Chair, Survey Research Methods Section, American Statistical Association, 2015 (Chair Elect 2014, Post-chair 2016)

Chair, Data Safety and Monitoring Board, "Cognitive Therapy for Suicidal Older Men," PI: Greg Brown, M.D., University of Pennsylvania School of Medicine, 2013-2017

Member, Data Safety and Monitoring Board, "Way to Quit Study," PI: Scott Halpern, M.D., University of Pennsylvania School of Medicine, 2010-2015.

Member, Publication Team Working Group, National Children's Study, 2008-2012.

Member, Sampling Team Working Group, National Children's Study, 2008-2010.

Chair, Behavioral Risk Factor Surveillance Survey Oversight committee, organized by the American Statistical Association at the request of the Centers for Disease Control, 2006-2012 (Member 2002-2005).

Member, Data Safety and Monitoring Board, "Early Cognitive Intervention for Suicide Attempters," PI: Greg Brown, M.D., University of Pennsylvania School of Medicine, 2003-2008.

#### **PROFESSIONAL ASSOCIATION MEMBERSHIP**

Society for Causal Inference (2021-)

American Association for the Advancement of Science (2020-)

American Association of Public Opinion Research (2017-)

International Statistical Institute (2006-)  
Association for the Advancement of Automotive Medicine (2005-2016)  
Eastern North American Biometrics Society (2000-)  
Royal Statistical Society (2000-)  
American Statistical Association (1995-)

## **OTHER PROFESSIONAL ACTIVITIES**

### Book Reviews

1. *Analysis of Health Surveys*, Korn, E.L., and Graubard, B.I., New York: Wiley, 1999, *Journal of the American Statistical Association* (2001), **96**, 351-352.
2. *Regression Methods in Biostatistics: Linear, Logistic, Survival, and Repeated Measures Models*, Vittinghoff, E., Glidden, D.V., Shiboski, S.C., McCulloch, C.E., New York: Springer, 2005, *Biometrics* (2006), **62**, 1271-1272.

### Textbook Reviewer

CRC Press  
Springer-Verlag Publishers

### Journal Referee

*American Journal of Epidemiology*  
*American Journal of Preventative Medicine*  
*Annals of Applied Statistics*  
*Australian and New Zealand Journal of Statistics*  
*Bayesian Analysis*  
*Biometrical Journal*  
*Biometrics*  
*Biometrika*  
*Biostatistics*  
*Bulletin of the World Health Organization*  
*Canadian Medical Association Journal*  
*Clinical Trials*  
*Communications in Statistics – Simulation and Computation*  
*Demographics*  
*Drug Safety*  
*Electronic Journal of Statistics*  
*Entropy*  
*Epidemiology*  
*Ethnicity and Health*  
*Field Methods*  
*Injury Prevention*  
*International Journal of Public Opinion Research*  
*Journal of Adolescent Health*  
*Journal of the American Statistical Association*  
*Journal of Biopharmaceutical Statistics*  
*Journal of Causal Inference*

*Journal of Computational and Graphical Statistics*  
*Journal of Educational and Behavioral Statistics*  
*Journal of Epidemiology and Community Health*  
*Journal of Gerontology: Social Science*  
*Journal of Official Statistics*  
*Journal of Pediatric Psychology*  
*Journal of Statistical Computation and Simulation*  
*Journal of Statistical Planning and Inference*  
*Journal of the Royal Statistical Society (Series A: Statistics in Society)*  
*Journal of the Royal Statistical Society (Series B: Statistical Methodology)*  
*Journal of the Royal Statistical Society (Series C: Applied Statistics)*  
*Journal of Studies on Alcohol and Drugs*  
*Journal of Survey Statistics and Methodology*  
*Mathematical Population Studies*  
*Metron*  
*Multivariate Behavioral Research*  
*Nature*  
*Pediatrics*  
*Population Studies*  
*Proceedings of the National Academy of Sciences*  
*Psychological Methods*  
*Public Opinion Quarterly*  
*Research Synthesis Methods*  
*Social Behavior and Personality: An International Journal*  
*Sociological Methodology*  
*Sociological Methods and Research*  
*Stapp Car Crash Journal*  
*Statistica Sinica*  
*Statistical Methods for Medical Research*  
*Statistical Science*  
*Statistics and Probability Letters*  
*Statistics in Medicine*  
*Survey Methodology*  
*Test*  
*Traffic Injury Prevention*