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EDUCATION

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

POSITIONS

2018-present	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
- 2005-present Population Study Center Research Affiliate, Institute for Social Research, Ann
Arbor, MI
- 2005-present Adjunct Professor (Adjunct Assistant Professor 2005-2008; Adjunct Associate
Professor 2008-2016) Department of Biostatistics and Epidemiology, University
of Pennsylvania School of Medicine, Philadelphia, PA

ACADEMIC HONORS

- 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 70th 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, ACL-LIFE Life History Interview and Validation (PI: Sarah Burgard, 1/15/20-11/30/24), National Institute of Aging, (8% 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).

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).

Co-Investigator, Racial inequalities in health throughout adulthood: The cumulative impact of neighborhood chemical and non-chemical stressors on epigenomic pathways (PI: Margaret Hicken), National Institute of Minority Health and Health Disparities (5% support)

Site Principle 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)

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 (1% 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, *Dynamics of Obesity between Infancy and Young Adulthood in the United States*, (PI: Solveig Argeanu, 3/15/18-2/28/23), National Institutes of Health (8% support)

Biostatistician, *The Impact of Tobacco Control Policies on Health Equity in the United States*, (PI: Nancy Fleisher, 12/19/17-11/30/22), National Cancer Institute (5% 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)

Principle Investigator (with Trivellore Raghunathan), *Novel Methods for Incorporating Sample Designs in Bayesian Inference*, (9/1/17-8/30/20), National Science Foundation (8% support)

Site Principal Investigator, *Prenatal Exposures and Child Health Outcomes: A Statewide Study* (PI: Nigel Paneth, 9/1/16-8/31/23), NIH ECHO grants (12% 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 (0% support).

Pending

Principle Investigator, *Variance as a Predictor of Health Outcomes* (2/1/22-1/31/26), National Institutes of Aging, 15% support.

Co-Investigator, *Analytic Inferences and Practical Tools for Population Neuroscience Research*, (PI: Yajuan Si), 4/1/21-3/31/26), National Institute of Aging (10% support).

Co-Investigator, *A National Neighborhood Data Archive*, (co-PIs: Margaret Hickens and Phillipa Clarke, 7/1/20-6/30/25), National Institute of Aging (10% support).

Co-Investigator, *Adaptive Web-based Respondent Driven Sampling (A-WRDS) for Racial/Ethnic Minority Data Collection under the Multiple Frame Estimation Framework* , (PI: Sunghee Lee) (7/1/20-6/30/25), National Institutes of Minority Health and Health Disparities (5% support)

Former

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 Ecosystem for Data Science Research and Application* (PI: Carol Flanagan, 7/1/16-6/30/19), MIDAS Internal Michigan Grant (4% Support)

Co-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).

University of Michigan 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 Flannagan, 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)

Principle 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 Branäs, 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)

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

Primary 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 Changepoint 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., **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., 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 C: Applied Statistics*, **54**, 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., 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., **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.

41. Nance, M.L., **Elliott, M.R.**, Arbogast, K.B., Winston, F.K., Durbin, D.R. (2006). "Delta V As a Predictor of Significant Injury for Children Involved In Frontal Motor Vehicle Crashes," *Annals of Surgery*, **243**, 121-125.
42. Donovan, J.M.*, **Elliott, M.R.**, Heitjan, D.F. (2006). "Predicting Events Times in Clinical Trials when Treatment Arm is Masked," *Journal of Biopharmaceutical Statistics*, **16**, 343-356.
43. **Elliott, M.R.**, Joffe, M.M., Chen, Z. (2006). "A Potential Outcomes Approach to Developmental Toxicity Analyses," *Biometrics*, **62**, 352-360.
44. Chen, I.G., Durbin, M.R., **Elliott, M.R.**, Senserrick, T., Winston, F.K.. (2006). "Child Passenger Injury Risk in Motor Vehicle Crashes: A Comparison of Nighttime and Daytime Driving between Teenage and Adult Drivers," *Journal of Safety Research*, **37**, 299-306.
45. **Elliott, M.R.**, Kallan, M.J., Durbin, D.R., Winston, F.K. (2006). "Effectiveness of Child Safety Seats versus Seat Belts in Reducing Risk of Death for Children in Passenger Vehicle Crashes," *Archives of Pediatrics and Adolescent Medicine*, **160**, 617-621.
46. Rosenthal, I., Kleindorfer, P.K., **Elliott, M.R.** (2006). "Predicting and Confirming the Effectiveness of For Managing Low-Probability Chemical Process Risks," *Process Safety Progress*, **25**, 135-155.
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204. Lee, S., Ong, A.R., Chen, C., **Elliott, M.R.** (2021). "Respondent Driven Sampling for Immigrant Populations: An Application to Foreign-Born Korean Americans," to appear in *Journal of Immigrant and Minority Health*.
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PEER-REVIEWED RESEARCH PUBLICATIONS -- SUBMITTED (*=Elliott's doctoral advisee/co-advisee)

211. Zhou, T.*, **Elliott, M.R.**, Little, R.J.A. (2021). "Addressing Disparities in the Assignment Propensity Distributions for Treatment Comparisons from Observational Studies," submitted to *Statistics in Medicine*.

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213. Coffey, S.*, **Elliott, M.R.**, Dahlhamer, J. (2021). "Predicting Lag Between First Attempt and First Contact Using Partial Data versus a Bayesian Approach," submitted to *Journal of Survey Statistics and Methodology*.

214. West, B., Wagner, J., Coffey, S.*, **Elliott, M.R.** (2021). "Eliciting Priors for Bayesian Prediction of Daily Response Propensity in Responsive Survey Design: Historical Data Analysis vs. Literature Review" submitted to *Journal of Survey Statistics and Methodology*.

215. Maile, M.D., Freundlich, R.E., Jewell, E.S., **Elliott, M.R.**, Engoren, M.C. (2021). "Clinically Important Complication Sequences Associated with Mortality after Non-Cardiac Surgery: An Observational National Cohort Study," submitted to *Critical Care Medicine*.

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217. Mistry, R., Bondarenko, I. Jeon, J., Brouwer, A.F., Mattingly, D.T., Hirschtick, J.L., Jimenez-Mendoza, E., Levy, D.T., Land, S., **Elliott, M.R.**, Taylor, J.M.G., Meza, R., Fleischer, N.L. (2021). "Socio-Demographic Differences in Latent Classes of Tobacco Use in US Adults," submitted to *Nicotine and Tobacco Research*.

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219. Titus, A.R., Xie, Y., Colston, D.C., Patrick, M.E., **Elliott, M.R.**, Levy, D.T., Thrasher, J.F., Fleischer, N.L. (2021). "Smoke-free Laws and Disparities in Youth Smoking in the United States, 2001-2018," submitted to *American Journal of Preventative Medicine*.

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222. **Elliott, M.R.**, West, B.T., Zhang, X., Coffey, S. (2021). "The Anchoring Method: Estimation of Interviewer Effects in the Absence of Interpenetrated Sample Assignment," submitted to *Survey Methodology*.

223. Speth, K. Marquez, J., **Elliott, M.R.**, and Wang, L. (2021). "Penalized Spline-Involved Tree-based (PenSIT) Learning for Estimating an Optimal Dynamic Treatment Regime Using Observational Data," submitted to *Statistical Methods in Medical Research*.

224. Rafei., A.* , Flannagan, C.A.C., West., B.T., **Elliott, M.R.** (2021). "Robust Bayesian Inference for Big Data: Combining Sensor-based Records with Traditional Survey Data," submitted to *Annals of Applied Statistics*.

225. Roberts, E.*; **Elliott, M.R.**; Taylor, J., (2021). "Incorporating Baseline Covariates to Validate Surrogate Endpoints with a Constant Biomarker under Control Arm," submitted to *Statistics in Medicine*.

226. Beesley, L.J., Bondarenko, I., **Elliott, M.R.**, Kurian, A.W., Katz, S.J. Taylor, J.M.G. (2021). "Multiple Imputation with Missing Data Indicators," submitted to *Statistical Methods in Medical Research*.

227. Parks, M.J., Patrick, M.E., Levy, D.T., Thrasher, J.F., **Elliott, M.R.**, Fleischer, N.L. (2021). "Cigarette Pack Price and Its Within-Person Association with Smoking Initiation, Smoking Progression, and Disparities among Young Adults," submitted to *Nicotine and Tobacco Research*.

228. Zhou, T.* , **Elliott, M.R.**, Little, R.J.A. (2021). "Robust Causal Estimation from Observational Studies using Penalized Spline of Propensity Score for Treatment Comparison," submitted to *Stats*.

229. Titus, A.R., Thrasher, J.F., Garmarel, K., Emery, S., **Elliott, M.R.**, Fleischer, N.L. (2021). "Examining associations between televised anti-tobacco media campaigns and current smoking among heterosexual and sexual minority adults in the United States, 2013-2015," submitted to *LGBT Health*.

BOOK CHAPTERS

1. “Combining Estimates from Multiple Surveys,” (2018). **Elliott, M.R.**, Raghunathan, T.E., Schenker, N. *Wiley StatsRef: Statistical Reference Online*.
<https://doi.org/10.1002/9781118445112.stat08079>.

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 (PAST 5 YEARS)

“Assessing Surrogate Paradox Risk in the Meta-Analytic Causal Association Framework,” presented at the 2020 Joint Statistical Meetings (virtual), August 2020.

“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 11th 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 28th 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.

“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.

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

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

OTHER PAPER/POSTER PRESENTATIONS (PAST 5 YEARS)

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 43rd 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 5th 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 7th 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 7th 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 50th Annual Meeting, Seattle, WA, June 2017, and at the Transportation Research Board 97th 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 96th Annual Meeting, Washington, DC, January 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 15th 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, and at the 2017 International Biometric Society, Eastern North American Region (ENAR), Washington, DC, March 2017.

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, and at the 2017 Atlantic Causal Conference, Chapel Hill, NC, May 2017.

OTHER PRESENTATIONS (PAST 5 YEARS)

“Modern Multiple Imputation,” workshop presented at the Eastern North American Region of the International Biometrics Society, Philadelphia, PA, March 2019.

“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.

SOFTWARE PACKAGES

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

EDITORIAL POSITIONS

Editor, *Journal of Survey Statistics and Methodology*, 2018-

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, *Public Opinion Quarterly*, 2010-.

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

TEACHING EXPERIENCE

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

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

Yibo Wang, Biostatistics, University of Michigan, 2020-

Ai Rene Ong (with Sunghee Lee), Survey Methodology, University of Michigan, 2020-

Jungyeon Wong (with Brisa Sanchez), Biostatistics, University of Michigan, 2019- (Winner, 2019 American Public Health Association Statistics Section Student Awards)

Emily Roberts (with Jeremy Taylor), Biostatistics, University of Michigan, 2018- (Winner, 2019 Michigan Institute for Data Science Symposium Student Poster Award; Winner, Rackham Pre-Doctoral Fellowship 2021-2022)

Johnathan Mendelson, Survey Methodology (with Partha Lahiri), University of Maryland, 2018-

Ali Rafei, Survey Methodology, University of Michigan, 2018- (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)

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

Vincent Tan, Biostatistics, University of Michigan, 2015-2018 (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, 2015-2018. (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 (Statistician, Survey Monkey Inc.)

Xi Xia, Biostatistics, University of Michigan, 2010-2014 (Data Scientist, Ford Motor Corp.)

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 (Lead statistician, 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) (Assistant Research Scientist, Institute for Social Research, University of Michigan)

Qi Dong (with Trivellore Raghunathan), Survey Methodology, University of Michigan, 2009-2012 (Data Science Manager, Uber Inc.)

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 (Associate Director – Biostatistics, Biogen)

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. (Statistician, Apple Inc.)

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

OTHER STUDENT ADVISING

Research Assistant

Yibo Chen, Biostatistics, University of Michigan, 2020-
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-
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

Kelly Speith, Biostatistics, University of Michigan, 2020
Micha Fischer, Survey Methodology, University of Michigan, 2018-
Alexis Reeves, Epidemiology, University of Michigan, 2018-
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
Ye Yang, Biostatistics, University of Michigan, 2014-
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

Spenser Hauptert, Biostatistics, University of Michigan, 2020-
Emily Friedman, Biostatistics, University of Michigan, 2020-
Chen Chen, Biostatistics, University of Michigan, 2020-
Jenni Kim, Biostatistics, University of Michigan, 2019-
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

Amanda Leggett, Department of Psychiatry, University of Michigan, 2017-

NIH Pre-Doctoral Fellowship Advisor

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

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-

Committees

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

University of Michigan Grievance Committee, 2016-

University of Michigan Data Security Oversight Committee, 2016-

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

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

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

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

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, 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

24th 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 65th 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

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-.

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

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

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 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
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
Injury Prevention
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 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
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