

Curriculum Vitae

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Bo Lu, Ph.D.

Division of Biostatistics
College of Public Health
The Ohio State University
244 Cunz Hall
1841 Neil Avenue
Columbus, OH 43210

Business Phone: 614-2477913
Fax: 614-2923572
Email: lu.232@osu.edu

Education

Aug. 2002	The Wharton School University of Pennsylvania Ph.D. in Statistics Dissertation: Non-bipartite matching in observational studies Advisor: P.R. Rosenbaum	Philadelphia, PA
Aug. 1999	The Wharton School University of Pennsylvania M.A. in Statistics	Philadelphia, PA
Jun. 1997	Peking University B.S. in Probability and Statistics (Major) B.S. in Computer Science (Minor)	Beijing, China

Academic Position

Jun. 2018—Present	Professor (with tenure) Division of Biostatistics College of Public Health Professor (Courtesy) Department of Statistics College of Arts and Sciences The Ohio State University	Columbus, OH
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Sep. 2013—May. 2018	Associate Professor (with tenure) Division of Biostatistics College of Public Health The Ohio State University	Columbus, OH
Oct. 2005—Aug. 2013	Assistant Professor Division of Biostatistics College of Public Health The Ohio State University	Columbus, OH
Sep. 2002—Sep. 2005	Assistant Professor Center for Statistical Sciences Department of Community Health Brown University	Providence, RI

Honors and Awards

- American Statistical Association Outstanding Chapter Service Award 2022
- Elected Fellow of the American Statistical Association 2021
- Poster winner of 2019 Joint Statistical Meetings Survey Research Methods Section (Coauthored with Harter R., Vaish A., Sukasih A., Iriondo-Perez J., and Jones K.)
- 2009, Paper of the Year Award, Inhalation and Respiratory Specialty Section, Society of Toxicology:
Sun Q., Yue P., Deiuliis J., Lumeng C., Kampfrath T., Mikolaj M., Cai Y., Ostrowski M., **Lu B.**, Parthasarathy S., Brook R., Moffatt-Bruce S., Chen L. and Rajagopalan S., “Ambient Air Pollution Exaggerates Adipose Inflammation and Insulin Resistance in a Mouse Model of Diet Induced Obesity”, *Circulation*, 2009, 119: 492-494.
- Winner of the Student Paper Competition
2002 Joint Statistical Meetings, The Government Statistics, Social Statistics and Survey Research Methods Section.
- Bursk Award for Excellence in Research
2001, Department of Statistics, the Wharton School, University of Pennsylvania.

Research Interests

- Causal Inference, Observational Study, Matched Design, Sensitivity Analysis, Nonparametric Bayesian modeling for heterogeneous effects
- Survey Sampling Methodology, Small Area Estimation, Large Population Survey Analysis
- Statistical Analysis with Missing Data
- Statistical Methods for Observational Studies and Real World Data in Health and Medicine

Publications

(Peer-reviewed, unless otherwise indicated; Names of students/post-doc fellows I directly advised are underlined.)

Methodology:

1. Zhao R. and **Lu B.** “Flexible Template Matching for Observational Study Design”, *Statistics in Medicine*, 2023; 1-19. doi: 10.1002/sim.9698
2. Lin Z., Ni A., and **Lu B.** “Propensity Score Matched Restricted Mean Survival Time Model for Marginal Causal Effect in Observational Data”, *Journal of Causal Inference*, 2023, 11: 20220035. doi.org/10.1515/jci-2022-0035
3. Xu X., MacEachern S. and **Lu B.** “Bridging the design and modeling of causal inference: A Bayesian nonparametric perspective”, *Observational Studies*, 2023, 9(1): 119-124. (Editor-reviewed)
4. Xi W., Hinton A., **Lu B.**, Krotki K., Keller-Hamilton B., Ferketich A. and Sukasih A. “Analysis of Combined Probability and Non-Probability Samples: A Simulation Evaluation and Application to A Teen Smoking Behavior Survey”, *Communication in Statistics: Simulation and Computation*, 2022. DOI: 10.1080/03610918.2022.2102181
5. Liu Y., **Lu B.**, Foster R., Zhang Y., Zhong J., Chen M. and Sun P. “Matching design for augmenting the control arm of a randomized controlled trial using real-world data”, *Journal of Biopharmaceutical Statistics*, 2022, DOI: 10.1080/10543406.2021.2011900
6. Nattino G., Song C., and **Lu B.** “Poly-Matching Algorithm in Observational Studies with Multiple Treatment Groups”, *Computational Statistics & Data Analysis*, 2022, 167, 107364.
7. Zhang Y. and **Lu B.** “Accounting for Matching Structure in Post-Matching Analysis of Observational Studies”, *Communication in Statistics—Simulation and Computation*, 2022, 51 (6): 3081-3099.
8. Ni A., Lin Z. and **Lu B.** “Stratified Restricted Mean Survival Time Model for Marginal Causal Effect in Observational Survival Data”, *Annals of Epidemiology*, 2021, 64: 149-154.
9. Zhang Y., Schnell P., Song C., Huang B., and **Lu B.** “Subgroup Causal Effect Identification and Estimation via Matching Tree”, *Computational Statistics & Data Analysis*, 2021, 159, 107188.
10. Wu P., Xu X., Tong X., Jiang Q., and **Lu B.** “A Propensity Score-based Spline Approach for Average Causal Effects”, *Journal of Statistical Planning and Inference*, 2021, 212: 153-168.
11. Nattino G., **Lu B.**, Shi J., Lemeshow S., Xiang H. “Triplet Matching for Estimating Causal Effects with Three Treatment Arms: A Comparative Study of Mortality by Trauma Center Level”, *the Journal of American Statistical Association*, 2021, 116(533): 44-53.
12. Hade E., Nattino G., Frey H. and **Lu B.** “Propensity Score Matching for Treatment Delay Effects with Observational Survival Data”, *Statistical Methods in Medical Research*, 2020, 29(3):695-708. PMID: 31571522

13. Liu S., Liu C., Nehus E., Macaluso M., **Lu B.**, and Kim M. “Propensity Score Analysis for Correlated Subgroup Effects”, *Statistical Methods in Medical Research*, 2020, 29(4):1067-1080.
14. Cai D., **Lu B.**, and Tong X. “Hypothesis Testing with Paired Partly Interval Censored Data”, *Acta Mathematicae Applicatae Sinica*, 2019, 35(3): 541-548.
15. Kim H., **Lu B.**, Nehus E., and Kim M. “Estimating Heterogeneous Treatment Effects for Latent Subgroups in Observational Studies”, *Statistics in Medicine*, 2019, 38(3):339-353.
PMID: 30232820.
16. Nattino G. and **Lu B.** “Model Assisted Sensitivity Analyses for Hidden Bias with Binary Outcomes”, *Biometrics*, 2018, 74(4):1141-1149.
PMID: 29992547.
17. Berzofsky M., Scruggs C., **Lu B.**, Sahr T., and Speizer H. “Improving Representation in Telephone-based Healthcare Access Surveys Requires Purposeful Efforts to Include Prepaid Cellphone Users”, *Journal of Clinical Epidemiology*, 2018, S0895-4356(18)30804-7.
PMID: 30529649.
18. **Lu B.**, Cai D., Tong X. “Testing Causal Effects in Observational Survival Data using Propensity Score Matching Design”, *Statistics in Medicine*, 2018, 37(11): 1846-1858.
PMID: 29399833.
19. Berzofsky M., Blanton C., Speizer H., Peterson K., **Lu B.**, and Sahr T. “A Method for Accounting for Classification Error in a Stratified Cellphone Sample”, *Journal of Survey Statistics and Methodology*, 2018, 6(4): 539-563.
20. **Lu B.**, Cai D., Wang L., Tong X., and Xiang H. “Inference for Proportional Hazards Model with Propensity Score”, *Communication in Statistics—Theory and Methods*, 2018, 47(12): 2908-2918.
21. **Lu B.** and Ashmead R. “Propensity Score Matching Analysis for Causal Effect with MNAR Covariates”, *Statistica Sinica*, 2018, 28: 2005-2025.
22. Li Z., Xu X., and **Lu B.** “Small Area Estimation Strategies for Large Population Surveys: A Comparison of Design and Model-Based Methods”, *Journal of Statistical Computation and Simulation*, 2017, 87(4): 817-833.
23. Berzofsky M., Peterson K., Speizer H., **Lu B.**, and Sahr T. “Assessing the Use of a Pre-Field Screening Service to Identify Nonworking Cellphone Numbers in Ohio”, *Survey Practice*, 2017, 10 (1), e-journal available online: http://www.surveypractice.org/index.php/SurveyPractice/article/view/345/html_82 (editor reviewed).
24. Shi J., **Lu B.**, Wheeler K., and Xiang H. “Unmeasured Confounding in Observational Studies with Multiple Treatment Arms: Comparing the Emergency Department Mortality of Severe Trauma Patients by Trauma Center Level”, *Epidemiology*, 2016, 27(5): 624-632.
PMID: 27276025.
25. Zhu H. and **Lu B.** “Multiple comparison for survival data with propensity score adjustment”, *Computational Statistics and Data Analysis*, 2015, 86: 42-51.
26. Hade E. and **Lu B.** “Bias Associated with Using Estimated Propensity Score as a Regression Covariate”, *Statistics in Medicine*, 2014, 33: 74-87.

- PMID: 23787715 PMCID: PMC4004383
27. **Lu B.**, Peng J., and Sahr T. "Estimation Bias of Different Design and Analytical Strategies in Dual Frame Telephone Surveys: An Empirical Evaluation", *Journal of Statistical Computation and Simulation*, 2013, 83 (12): 2352-2368.
 28. **Lu B.** and Gatsonis C. "Efficiency of Study Designs in Diagnostic Randomized Clinical Trials", *Statistics in Medicine*, 2013, 32:1451-1466.
PMID: 23071073 PMCID: PMC3600406
 29. **Lu B.** and Marcus S. "Evaluating long term effects of a psychiatric treatment using instrumental variable and matching approaches", *Health Services and Outcome Research Methodology*, 2012, 12: 288-301.
 30. Xu X., Pennell M., **Lu B.**, Murray D., "Efficient Bayesian Joint Modeling for Group Randomized Trials with Multiple Observation Times and Multiple Outcomes". *Statistics in Medicine*, 2012, 31:2858-2871. PMC3892667
 31. **Lu B.**, Qian Z., Cunningham A., and Li C. "Estimating the Effect of Premarital Cohabitation on Timing of Marital Disruption: Using Propensity Score Matching in Event History Analysis", *Sociological Methods and Research*, 2012, 41(3): 440-466.
 32. **Lu B.**, Greevy R., Xu X. and Beck C. "Optimal Nonbipartite Matching and its Statistical Applications", *The American Statistician*, 2011, 65(1): 21-30.
PMC3501247
 33. **Lu B.** and Duijn M. "Reducing Selection Bias using Propensity Score Matching", Proceedings of Academy Colloquium "Advising on Research Methods" by Netherlands Royal Academy of Art and Science, 2007, 91-106 (editor reviewed).
 34. **Lu B.** "Propensity Score Matching with Time Dependent Covariates", *Biometrics*, 2005; 61: 721-728.
 35. Zanutto E, **Lu B.**, Hornik R. "Using Propensity Score Subclassification to Evaluate a National Anti-Drug Media Campaign", *Journal of Educational and Behavioral Statistics*, 2005; 30: 59-73.
 36. **Lu B.**, Rosenbaum P. "Optimal Pair Matching with Two Control Groups", *Journal of Computational and Graphical Statistics*, 2004; 13: 422-434.
 37. Greevy R., **Lu B.**, Silber, J. and Rosenbaum, P. "Optimal Multivariate Matching Before Randomization: An Algorithm and a Case-Study", *Biostatistics*, 2004; 5: 263-275.
PMID: 15054030
 38. **Lu B.**, Zanutto E., Hornik R., Rosenbaum P. "Matching with Doses in an Observational Study of a Media Campaign against Drug Abuse", *Journal of the American Statistical Association*, 2001; 96: 1245-1253.
PMID: 25525284 PMCID: PMC4267480
 39. Chen J., Zhang R., **Lu B.** "Statistical Inference about JM Model", *Chinese Journal of Applied Statistics and Probability*, 2001; 17: 403-409.

Collaboration:

40. Benedetti M., Schwebel D., **Lu B.**, Rudisill T., Smith G. Zhu M. "Short-term impacts of all-driver handheld cellphone bans on high-schoolers' texting while

- driving: quasi-experimental analyses of Illinois and Georgia”, *Accident Analysis and Prevention*, 2023, 184: 107014.
41. Teferra A., Wing J., **Lu B.**, Xu W., Roberts M. and Ferketich A. “Examining trends in health care access measures among low-income adult smokers in Ohio: 2012-2019”, *Preventive Medicine Reports*, 2023, 31: 102106. DOI: 10.1016/j.pmedr.2022.102106
PMID: 36820365 PMCID: PMC9938324.
 42. Pan Y., Neuroth L., Chomitz I., Davila V., Liu K., McKenzie L., Lu B., Zhu M. “Seat Belt Laws and Prevalence of Use among High School Students in the United States”, *Annals of Epidemiology*, 2022.
<https://doi.org/10.1016/j.annepidem.2022.12.011>
 43. Benedetti M., Kinnear N., **Lu B.**, Li L., Delgado K. Zhu M. “The impact of Illinois’ comprehensive handheld phone ban on talking on handheld and handsfree cellphones while driving”, *Journal of Safety Research*, 2022.
doi:10.1016/j.jsr.2022.11.003.
 44. Roberts, M.E., Tackett, A.P., Singer, J.M., Wagner, D.D., **Lu, B.**, Wagener, T.L., Brinkman, M., Klein, E.G., Vickerman, K.A. Wold, L.E., Gumina, R.J., & Mohler, P.J. “Dual use of e-cigarettes and cannabis among young people in America: A new public health hurdle?” *Journal of Studies on Alcohol and Drugs*, 2022, 83 (5): 768-770.
 45. Ma S., Jiang S., Ling M., **Lu B.**, Chen J., and Shang C. “E-cigarette Taxes and Pricing Activities of E-liquid Products Sold in Online Vape Shops”, *Tobacco Control*, 2022; 1–8. doi:10.1136/tobaccocontrol-2021-057033.
 46. Teferra A., Alalwan M., Keller-Hamilton B., **Lu B.**, Roberts M., Paskett E., Chrzan K., Curran H., and Ferketich A. “Adherence to COVID-19 protective measures in a longitudinal sample of male youth”, *the International Journal of Behavioral Medicine*, 2022; 1-11. doi: 10.1007/s12529-022-10090-w. PMID: 35543861
 47. Keller-Hamilton B., Curran H., Stevens E., Slater M., **Lu B.**, Roberts M., and Ferketich A. “Associations between cognitive and affective responses to tobacco advertisements and tobacco use incidence: A four-year prospective study among adolescent boys”, *International Journal of Environmental Research and Public Health*, 2021, 18(21):11666. PMID: 34770180
 48. Plascak J., Rundle A., Xu X., Mooney S., Schootman M., **Lu B.**, Roy J., Stroup A., and Llanos A. “Associations between neighborhood disinvestment and breast cancer outcomes within a populous state registry”, *Cancer*, 2022, 128 (1): 131-138. PMID: 34495547
 49. Cash R., Andersen S., Lancaster K., **Lu B.**, Rivard M., Camargo C., and Panchal A. “Associations between sleep, stress, and cardiovascular health in Emergency Medical Services personnel”, *JACEP Open*, 2021; 2:e12516.
 50. Chang T-J., Bridges J., Bynum M., Joseph J., Jackson J., Fischer M., **Lu B.**, and Donneyong M. “The association between patient-clinician relationships and adherence to antihypertensive medications among Blacks: an observational study design”, *the Journal of American Heart Association*, 2021; 10:e019943.

51. Berzofsky M., Freedner, N. Scruggs C., Sahr T., **Lu B.**, Ashmead R., Nau M., Seiber E., Rosebrook H., and Duffy T. “The Design and Methodology of the Ohio COVID-19 Survey”, *Ohio Journal of Public Health*, 2021, 4(1): 5-10.
52. Keller-Hamilton, B., **Lu, B.**, Roberts, M.E., Berman, M.L., Root, E.D., Ferketich, A.K. “Electronic Cigarette Use and Risk of Cigarette and Smokeless Tobacco Initiation among Adolescent Boys: A Propensity Score Matched Analysis”, *Addictive Behaviors*, 2021, 114, 106770.
53. Donneyong M., Chang T-J., Jackson J., Langston M., Juarez P., Sealy-Jefferson S., **Lu B.**, Wansoo I., Valdez R., Baldwin W., Colen C., Fischer M., Salsberry P., Bridges J., and Hood D. “Structural and social determinants of health factors accounted for county-level variation in non-adherence to antihypertensive medication treatment”, *International Journal of Environmental Research and Public Health*, 2020, 17, 6684.
54. Orellana R., Hoet A., van Balen J., **Lu B.**, Kelley C., and Stevenson K. “Detecting environmental contamination of MRSA in ambulances: A novel, and efficient sampling methodology”, *Ohio Journal of Public Health*, 2020, 3(2): 20-24.
55. Cash R., Anderson S., Lancaster K., **Lu B.**, Rivard M., Camargo C., and Panchal A. “Comparing the Prevalence of Poor Sleep and Stress Metrics in Basic versus Advanced Life Support Emergency Medical Services Personnel”, *Prehospital Emergency Care*, 2020, 24(5): 644-656.
56. Lundine J., Peng J., Chen D., Lever K., Wheeler K., Groner J., Shen J., **Lu B.**, and Xiang H. “The Impact of Driving Time on Pediatric TBI Follow-up Visit Attendance”, *Brain Injury*, 2020, 34(2):262-268.
PMID: 31707871
57. Paskett E., Pennell M., Ruffin M., Weghorst C., **Lu B.**, Hade E., Peng J., Bernardo B., and Wewers ME. “A Multi-level Model to Understand Cervical Cancer Disparities in Appalachia”, *Cancer Prevention Research*, 2020, 13 (3): 223-228.
PMID: 32132116 PMCID: PMC7080299
58. Knobloch T., Peng J., Hade E., Cohn D., Ruffin M., Schiano M., Calhoun B., McBee W., Lesnock J., Gallion H., Pollock J., **Lu B.**, Oghumu S., Zhang Z., Sears M., Ogbemudia B., Perrault J., Weghorst L., Strawser E., DeGraffinreid C., Paskett E., Weghorst C. “Inherited Alterations of TGF Beta Signaling Components in Appalachian Cervical Cancers”, *Cancer Causes and Control*, 2019, 30 (10): 1087-1100.
PMID: 31435875 PMCID: PMC6768402.
59. Shi J., Shen J., Zhu M., Wheeler K., **Lu B.**, Kenny B., Nuss K., and Xiang H. “A New Weighted Injury Severity Scoring System: Better Predictive Power for Adult Trauma Mortality”, *Injury Epidemiology*, 2019, 6: 40, DOI: 10.1186/s40621-019-0217-8
PMID: 31559123 PMCID: PMC6755696.
60. Zigmont V., Shoben A., **Lu B.**, Kaye G., Clinton S., Harris R., Olivo-Marston S. “Statin users have an elevated risk of dysglycemia and new-onset-diabetes”, *Diabetes/Metabolism Research and Reviews*, 2019, 35(8):e3189.
PMID: 31125480.

61. Burgoon M., Albani T. Keller-Hamilton B., **Lu B.**, Roberts M., Craigmile P., Browning C., Xi W., and Ferketich A. “Exposures to the Tobacco Retail Environment among Adolescent Boys in Urban and Rural Environments”, *The American Journal of Drug and Alcohol Abuse*, 2019, 45(2): 217-226.
PMID: 30601033 PMCID: PMC6430681.
62. Mitchell J., Belendiuk K., Howard A., Stehli A., Swanson J., Kennedy T., Hechtman L., Arnold LE., Hoza B., Vitiello B., **Lu B.**, Kollins S., and Molina B. “Cigarette Smoking Progression among Young Adults Diagnosed with ADHD in Childhood: A 16-year Longitudinal Study of Children with and without ADHD”, *Nicotine & Tobacco Research*, 2019, 21(5): 638-647.
PMID: 29538764.
63. Farietta T., **Lu B.**, and Tumin R. “Ohio's Medicaid Expansion and Unmet Health Needs among Low-Income Women of Reproductive Age”, *Maternal and Child Health Journal*, 2018, 22(12): 1771-1779.
PMID: 30006730
64. Keller-Hamilton B., Muff J., Blue T., **Lu B.**, Slater M., Roberts M., and Ferketich A. “Tobacco and Alcohol on Television: A Content Analysis of Male Adolescents’ Favorite Shows”, *Preventing Chronic Disease*, 2018, 15:180062.
DOI: <http://dx.doi.org/10.5888/pcd15.180062>
65. Evans A., Peters E., Keller-Hamilton B., Loiewski C., Slater M., **Lu B.**, Roberts M., and Ferketich A. “Warning Size Affects What Adolescent Recall From Tobacco Advertisements”, *Tobacco Regulatory Science*, 2018, 4(3):79-87.
PMID: 30009217 PMCID: PMC6039125.
66. Shi J., Shen J., Caupp S., Wang A., Nuss K., Kenny B., Wheeler K., **Lu B.**, and Xiang H. “A New Weighted Injury Severity Scoring System: Better Predictive Power for Pediatric Trauma Mortality”, *Journal of Trauma and Acute Care Surgery*, 2018, 85(2):334-340.
PMID: 29787558 PMCID: PMC6081250.
67. Friedman K., Roberts M., Keller-Hamilton B., Yates K., Paskett E., Berman M., Slates M., **Lu B.**, and Ferketich A. “Attitudes towards Tobacco, Alcohol, and Non-Alcoholic Advertisement Themes among Adolescent Boys”, *Substance Use & Misuse*, 2018, 53(10):1706-1714.
PMID: 29436898 PMCID: PMC6037539.
68. Nemeth J., Thomson T., **Lu B.**, Peng J., Krebs V., Doogan N., Ferketich A., Douglas P., Browning C., Electra P., and Wewers ME. “A social-contextual investigation of smoking among rural women: multi-level factors associated with smoking status and considerations for cessation”, *Rural and Remote Health*, 2018, 18: 4338. <https://doi.org/10.22605/RRH4338>
PMID: 29500916.
69. Thomson T., Nemeth J., Peng J., **Lu B.**, Ferketich A., Paskett E., and Wewers ME. "Address-Based Sampling for Recruiting Rural Subpopulations: A 2-Phase, Multimode Approach", *Journal of Rural Health*, 2018, 34(2): 193-201.
PMID: 28685888 PMCID: PMC5756702.
70. Jin Y., Berman M., Klein E., Foraker R., **Lu B.**, and Ferketich A. “Ending Tobacco Sale in Pharmacies: A Qualitative Study”, *the Journal of the American Pharmacists Association*, 2017, 57(6): 670-676.e1.

71. Nehus E., Liu C., **Lu B.**, Macaluso M., and Kim M. "Graft Survival of Pediatric Kidney Transplant Recipients Selected for de novo Steroid Avoidance—a Propensity Score-Matched Study", *Nephrology Dialysis Transplantation*, 2017, 32(8): 1424-1431.
PMID: 28810723 PMCID: PMC6251591.
72. Roberts ME., **Lu B.**, Browning C., and Ferketich A. "Tracking Young Adults' Attitudes toward Tobacco Marketing Using Ecological Momentary Assessment (EMA)", *Substance Use and Misuse*, 2017, 52(9):1219-1224.
PMID: 28605315.
73. Wang L., **Lu B.**, Wewers ME., Foraker R., Xie M., and Ferketich A. "Are Retailers Compliant with Zoning Regulations that Ban Tobacco Sales near Schools in Changsha, China?", *Tobacco Control*. 2017, 26: 446-451.
PMID: 27457789.
74. Lam J., **Lu B.**, Doogan N., Thomson T., Ferketich A., Paskett E., and Wewers ME. "Depression, Smoking and Ego-Centric Social Network Characteristics in Ohio Appalachian Women", *Journal of Rural Mental Health*, 2017, 41(1): 30-41.
75. Nemeth J., Bonomi A., **Lu B.**, Lomax R., and Wewers ME. "Risk Factors for Smoking in Rural Women: The Role of Gender-Based Sexual and Intimate Partner Violence", *Journal of Women's Health*. 2016, 25(12): 1282-1291.
PMID: 27548468 PMCID: PMC5175431.
76. Creary S., Chisolm D., Kock T., Zigmont V., **Lu B.**, and O'Brien S. "Hydroxyurea Use in Children with Sickle Cell Disease: Do Severely Affected Patients Use It and Does It Impact Hospitalization Outcomes?", *Pediatric Blood and Cancer*. 2016, 63(5): 844-847.
PMID: 26797936 PMCID: PMC4801693
77. Jin Y., **Lu B.**, Berman M., Klein E., Foraker R. and Ferketich A. "The Impact of Tobacco-Free Pharmacy Policy on Smoking Prevalence", *Journal of American Pharmacist Association*. 2016, 56(6):627-632.
PMID: 27667500.
78. Jin Y., **Lu B.**, Klein E., Berman M., Foraker R. and Ferketich A. "Tobacco-Free Pharmacy Laws and Trends in Tobacco Retailer Density in California and Massachusetts", *American Journal of Public Health*. 2016, 106(4):679-685.
PMID: 26890173.
79. Thomson T., Krebs V., Nemeth J., **Lu B.**, Peng J., Doogan N., Ferketich A., Post D., Browning C., Paskett E., and Wewers ME. "Social Networks and Smoking in Rural Women: Intervention Implications", *American Journal of Health Behavior*. 2016, 40(4):405-415.
PMID: 27338987 PMCID: PMC4944163
80. Roberts ME., Colby SM., **Lu B.**, and Ferketich A. "Understanding Tobacco Use Onset among African Americans", *Nicotine & Tobacco Research*, 2016, 18 (suppl 1): S49-S56.
PMID: 26980864 PMCID: PMC4889995
81. Orellana R., Hoet A., Bell C., Kelly C., **Lu B.**, Anderson S., and Stevenson K. "Methicillin-resistant *Staphylococcus aureus* in Ohio EMS providers: A statewide cross-sectional study", *Prehospital Emergency Care*, 2016, 20(2): 184-190.
PMID: 26516797

82. Wang L., Jin Y., **Lu B.**, and Ferketich A. "A Cross-country Study of Smoking Cessation Assistance Utilization in 16 Low and Middle Income Countries: Data from the Global Adult Tobacco Survey (2008-2012)", *Nicotine & Tobacco Research*, 2016, 18(5): 1076-1082.
PMID: 26116084
83. Yao X., Dembe A., Wickizer T., and **Lu B.** "Does Time Pressure Create Barriers for People to Receive Preventive Health Services?" *Preventive Medicine*, 2015, 74: 55-58.
PMID: 25773470
84. Bai Y., Xu Z., **Lu B.**, Sun Q., Tang W., Liu X., Yang W., Xu X., and Liu Q. "Effects of Climate and Rodent Factors on Hemorrhagic Fever with Renal Syndrome in Chongqing, China, 1997-2008", 2015, *PLoS ONE* 10(7): e0133218.
PMID: 26193359 PMCID: PMC4507865
85. Bai Y., **Lu B.**, Sun Q. "Pre-exposure to fine particulate matters may induce endotoxin tolerance in a mouse model", 2015, *Austin Journal of Environmental Toxicology*, 2015, 1(1): 1004.
PMID: 26900605 PMCID: PMC4757438
86. Vickers B., Shi J., **Lu B.**, Wheeler K., Peng J., Groner J., Haley K., and Xiang H. "Comparative Study of ED Mortality Risk of US Trauma Patients Treated at Level I & Level II vs. Nontrauma Centers", *American Journal of Emergency Medicine*, 2015, 33(9):1158-65.
PMID: 26066772.
87. Ing S., Orchard T., **Lu B.**, Lamonte M., Barbour K., Cauley J., and Jackson R. "TNF Receptors Predict Hip Fracture Risk in the WHI Study and Fatty Acid Intake Does Not Modify This Association", *The Journal of Clinical Endocrinology & Metabolism*, 2015, 100 (9): 3380-3387.
PMID: 26161450 PMCID: PMC4570162
88. Shi J., Gardner S., Wheeler K., Thompson M., **Lu B.**, Stallones L., and Xiang H., "Characteristics of Nonfatal Occupational Injuries among US Workers With and Without Disabilities", *American Journal of Industrial Medicine*, 2015, 58(2): 168-177.
PMID: 25603939
89. Shi J., Wheeler K., **Lu B.**, Bishai D., Stallones L., and Xiang H. "Medical Expenditures Associated with Nonfatal Occupational Injuries among U.S. Workers Reporting Persistent Disabilities", *Disability and Health Journal*, 2015, 8(3):397-406.
PMID: 25573252
90. Mihai G., Varghese J., **Lu B.**, Zhu H., Simonetti O., and Rajagopalan S. "Reproducibility of Thoracic and Abdominal Aortic Wall Measurements with Three-Dimensional, Variable Flip Angle (SPACE) MRI", *Journal of Magnetic Resonance Imaging*, 2015, 41: 202-212.
PMID: 24382710
91. Jin Y., Wang L., **Lu B.** and Ferketich A. "Secondhand Smoke Exposure, Indoor Smoking Ban and Smoking Related Knowledge in China", *International Journal of Environmental Research and Public Health*, 2014, 11: 12835-12847.
PMID: 25514143 PMCID: PMC4276649

92. Zeeshan M., Dembe A., Seiber E., and **Lu B.** "Incidence of adverse events in an integrated US healthcare system: a retrospective observational study of 82,784 surgical hospitalizations." *Patient Safety in Surgery*, 2014, 8(23):1-10. PMID: 24932219 PMCID: PMC4055940
93. Bai Y., Xu Z., Zhang J., Mao D., Luo C., He Y., Liang G., **Lu B.**, Bisesi M., Sun Q., Xu X., Yang W., and Liu Q. "Regional Impact of Climate on Japanese Encephalitis in Areas Located near the Three Gorges Dam", *PLoS One*, 2014, 9 (1): e84326. PMID: 24404159 PMCID: PMC3880291
94. Frank R., Akresh I. and **Lu B.** "How Do Latino Immigrants Fit into the Racial Order?" pp.780-787, *Social Stratification: Class, Race, and Gender in Sociological Perspective*. 4th edition, 2014. Westview Press, Boulder, CO, USA. (Brief commissioned version of the 2010 *American Sociological Review* paper, editor-reviewed.)
95. Balsam S., Jiang W. and **Lu B.** "Equity Incentives and Internal Control Weaknesses", *Contemporary Accounting Research*, 2014, 31(1): 178-201.
96. Mihai G., Varghese J., Kampfrath T., Gushchina L., Deiuliis J., Hafer L., Maisseyu A., Simonetti O., **Lu B.**, and Rajagopalan S. "Aliskiren effect on Plaque Progression In Established Atherosclerosis using high Resolution 3D MRI(ALPINE): A Double-Blind Placebo-Controlled Trial", *Journal of the American Heart Association*, 2013, 2(3): e004879. <https://doi.org/10.1161/JAHA.112.004879> PMID: 23686372 PMCID: PMC3698800
97. **Lu B.**, Sahr T., Iachan R., Denker M., Duffy T., and Weston, D. "Design and Analysis of Dual-Frame Telephone Surveys for Health Policy Research", *World Medical & Health Policy*, 2013, 5(3): 217-232.
98. Marcus S., **Lu B.**, Lim S., Gibbons R., and Oquendo M. "Suicide attempts in patients with bipolar disorder tend to precede, not follow, initiation of antiepileptic drugs", *Journal of Clinical Psychiatry*, 2013, 74(6): 630-631. PMID: 23842016
99. Molina B., Hinshaw S., Arnold LE., Swanson J., Pelham W., Hoza B., Hechtman L., Epstein J., Wigal T., Abikoff H., Elliott G., Greenhill L., Jensen P., Newcom J., Wells K., Vitiello B., Gibbons R., Howard A., Houck P., Hur K., **Lu B.**, and Marcus S. "Adolescent Substance Use in the Multimodal Treatment Study of Attention-Deficit/Hyperactivity Disorder (ADHD) (MTA) as a Function of Childhood ADHD, Random Assignment to Childhood Treatments, and Subsequent Medication", *Journal of the American Academy of Child and Adolescent Psychiatry*, 2013, 52(3): 250-263. PMID: 23452682 PMCID: PMC3589108
100. Orchard T.S., Ing S., **Lu B.**, Belury M., Johnson K., Wactawski-Wende J. and Jackson B. "The association of red blood cell n-3 and n-6 fatty acids to dietary fatty acid intake, bone mineral density and hip fracture risk in the Women's Health Initiative", *Journal of Bone and Mineral Research*, 2013, 28(3): 505-515. PMID: 23018646 PMCID: PMC3785326

101. Ferketich A.K., Diaz P., Browning K.K., **Lu B.**, Koletar S.L., Reynolds N.R., and Wewers M.E. "Safety of Varenicline among Smokers Enrolled in the Lung HIV Study", *Nicotine & Tobacco Research*, 2013, 15(1): 247-254.
PMID: 22589421 PMCID: PMC3524069
102. Xiang H., Shi J., **Lu B.**, Wheeler K., Zhao W., Wilkins JR. and Smith GA. "Medical expenditures associated with nonfatal occupational injuries among immigrant and U.S.-born workers.", *BMC Public Health*, 2012, 12:678-686.
103. Price J., Shi J., **Lu B.**, Smith G., Stallones L., Wheeler K. and Xiang H. "Non-occupational and Occupational Injuries to U.S. Workers with Disability", *American Journal of Public Health*, 2012, 102: e38-e46.
104. Baker S., Van-Balem J., **Lu B.**, Hillier A. and Hoet A. "Antimicrobial Use in Canine Patients entering a Veterinary Teaching Hospital", *Journal of the American Veterinary Medical Association*, 2012, 241: 210-217.
105. Yang K., LeJeune J., Alsdorf D., **Lu B.**, Shum C.K. and Song L. "Global Distribution of Outbreaks of Water-Related Infectious Diseases", *PLoS Neglected Tropical Diseases*, 2012, 6(2): e1483. doi:10.1371/journal.pntd.0001483.
106. **Lu B.** and Elliot J. "Beyond seizures and medications: Normal activity limitations, social support and mental health in epilepsy", *Epilepsia*, 2012, 53(2): e25-28.
107. Shah Z., Kampfrath T., Deiuliis J., Zhong J., Pineda C., Ying Z., Xu X., **Lu B.**, Sun Q., Durairaj R., Mihai G., Moffatt-Bruce S., Maiseyeu A. and Rajagopalan S. "Long-term DPP-4 Inhibition Reduces Atherosclerosis and Inflammation via Effects on Monocyte Recruitment and Chemotaxis", *Circulation*, 2011, 124: 2338-49.
108. O'Brien J., **Lu B.**, Ali N., Levine D., Aberegg S., Lemeshow S. "Insurance type and sepsis-associated hospitalization and sepsis-associated mortality among U.S. adults: A retrospective cohort study", *Critical Care*, 2011, 15:R130-140.
109. Grassi M., Enea D., Ferketich A., **Lu B.**, Pasquariello S. and Nencini P. "The Effectiveness of Varenicline for Smoking Cessation: A One-year Follow-up Study", *Journal of Substance Abuse Treatment*, 2011, 41: 64-70.
110. Elliott J., Charyton C., Sprangers P., **Lu B.** and Moore L. "The impact of marriage and social support on persons with active epilepsy", *Epilepsy and Behavior*, 2011, 20: 533-538.
111. Orchard T., Cauley J., Frank G., Neuhaus M., Robinson J., Snetselaar L., Tylavsky F., Wactawski-Wende J., Young A., **Lu B.** and Jackson R. "Fatty acid consumption and risk for fracture in the Women's Health Initiative", *American Journal of Clinical Nutrition*, 2010, 92:1452-60.
112. Dembe A., **Lu B.**, and Sieck C. "Predictors of Health Plan Satisfaction among Employees in an Academic Setting", *American Journal of Medical Quality*, 2010, 25(4):274-84.
113. Frank R., Akresh I. and **Lu B.** "Latino Immigrants and the U.S. Racial Order: How and Where Do They Fit In?", *American Sociological Review*, 2010, 75(3): 378-401.
114. Charyton C., Elliott J., **Lu B.** and Moore L. "The impact of social support on health related quality of life in persons with epilepsy", *Epilepsy and Behavior*, 2009, 16: 640-645.

115. Grassi M., Enea D., Ferketich A., **Lu B.** and Nencini P. "A Smoking Ban in Public Places Increases the Efficacy of Bupropion and Counseling on Cessation Outcomes at One Year", *Nicotine & Tobacco Research*, 2009, 11: 1114-1121.
116. Elliott J., **Lu B.**, Shneker B., Moore L. and McAuley J. "The impact of 'social determinants of health' on persons with epilepsy", *Epilepsy Research*, 2009, 84: 135-145.
117. Sun Q., Yue P., Deiuliis J., Lumeng C., Kampfrath T., Mikolaj M., Cai Y., Ostrowski M., **Lu B.**, Parthasarathy S., Brook R., Moffatt-Bruce S., Chen L. and Rajagopalan S., "Ambient Air Pollution Exaggerates Adipose Inflammation and Insulin Resistance in a Mouse Model of Diet Induced Obesity", *Circulation*, 2009, 119: 492-494.
118. Elliott J., Charyton C., **Lu B.** and Moore L. "Serious psychological distress in persons with epilepsy in poverty", *Seizure: European Journal of Epilepsy*, 2009, 18: 332-338.
119. Moore L., Elliott J., **Lu B.**, Klatte E. and Charyton C. "Serious psychological distress among persons with epilepsy based on the 2005 California Health Interview Survey", *Epilepsia*, 2009, 50(5): 1077-1084.
120. Monaco G., **Lu B.**, Wood M. "Impact of the National History Day in Ohio program on students' performances: Pilot Evaluation Project", *Journal of Museum Education*, 2009; Volume 34, Number 4: 79-96.
121. Elliott J., **Lu B.**, Shneker B., Charyton C. and Moore L. "Co-morbidity, health screening and quality of life among persons with a history of epilepsy", *Epilepsy and Behavior*, 2009; 14: 125-129.
122. Elliott J., **Lu B.**, Moore L., McAuley J. and Long L. "Exercise, diet, health behavior, and risk factors among persons with epilepsy in California based on the California Health Interview Survey, 2005", *Epilepsy and Behavior*, 2008; 13: 307-315.
123. Mallery S., Zwick J., Pei P., Tong M., Larsen P., Shumway B., **Lu B.**, Fields H., Mumper R. and Stoner G. "Topical application of a bioadhesive black raspberry gel modulates gene expression and reduces proinflammatory proteins in human premalignant oral lesions", *Cancer Research*, 2008; 68: 4945-4957.
124. Shumway B., Kresty L., Larsen P., Zwick J., **Lu B.**, Fields H., Mumper R., Stoner G., Mallery S. "Effects of a topically applied bioadhesive berry gel on loss of heterozygosity indices in premalignant oral lesions", *Clinical Cancer Research*, 2008; 14: 2421-2430.
125. Elliott J., Moore, L. and **Lu B.** "Health status and behavioral risk factors among persons with epilepsy in Ohio based on the 2006 Behavioral Risk Factor Surveillance System", *Epilepsy and Behavior*, 2008; 12: 434-444.
126. Sun Q., Yue P., Kirk R., Wang A., Moatti D., Jin X., **Lu B.**, Schecter A., Lippmann M., Chen L., Rajagopalan S. "Ambient Air Particulate Matter Exposure and Tissue Factor Expression in Atherosclerosis", *Inhalation Toxicology*, 2008; Volume 20, Issue 2: 127-137.
127. O'Brien J., **Lu B.**, Ali N., Martin G., Aberegg S., Marsh L., Lemeshow S., Douglas I. "Chronic alcohol abuse (CAA) is independently associated with sepsis, septic shock and hospital mortality among adult intensive care unit patients", *Critical Care Medicine*, 2007; 32(5): 345-350.

Books and Book Chapters

- Zhang, F. and **Lu, B.** 1996. *C Programming: Just the FAQs (Translation into Chinese)*. Tsinghua University Press, Beijing, China,
- Lu, F. and **Lu, B.** 1997. *C language with applications (in Chinese)*, Peking University Press, Beijing, China, ISBN 7-301-03443-1.
- **Lu B.** and Lemeshow S. 2018. Chapter 4: Survey Sampling and Propensity Score Matching, *Handbook of Psychometric Testing*, Wiley.
- **Lu B.** 2020. Chapter 7: Causal Inference for Observational Studies/Real-World Data, *Real-World Evidence in Drug Development and Evaluation*, CRC Press.
- **Lu B.** and Greevy R. 2023. Chapter 9: Risk Set Matching, *Handbook of Multivariate Matching and Weighting for Causal Inference*, CRC Press.
- Greevy R. and **Lu B.** 2023. Chapter 12: Optimal Nonbipartite Matching, *Handbook of Multivariate Matching and Weighting for Causal Inference*, CRC Press.

Research Reports

- **Lu, B.**, Jamieson, B., and Sahr, T. “Health Care Trend Among Ohio Seniors”, 2013, The 2012 OMAS Sponsored Research Report.
- Dayton, J., Muzzy, S., Denker, M., Ferketich, A., Iachan, R., **Lu, B.**, Molonney, M., Sahr, T. and ZuWallack, R. “2010 Ohio Family Health Survey Methodology Report”, 2011.
- Duffy, T., Muzzy, S., Bausch, S., Ferketich, A., Iachan, R., Hannah, K., **Lu, B.**, Martino, P., Pun, M., Sahr, T. and ZuWallack, R. “2008 Ohio Family Health Survey Methodology Report”, 2009.
- Levine, D., Karve, S., Seiber, E., Dembe, A., Slivka, A. and **Lu, B.** “Informal Caregiver Assistance among Adults with Cardiovascular Disease in Ohio”, 2009, The 2008 OFHS Sponsored Research Reports.

Media Coverage

- “The Ohio COVID-19 Survey” (Sahr, T., Ashmead, R., **Lu, B.**, Berzofsky M., and Scruggs, M.), September 2021, *AmstatNews*, Magazine of the American Statistical Association.

Grants

Active

- 1R01HD107280-01A1 (MPIs: Groner, **Lu** and Xiang) 2/1/2023-1/31/2028
NIH/NICHD \$2,776,065 (total) 25%
Poly-Matching Causal Inference for Assessing Multiple Acute Medical
Managements of Pediatric Traumatic Brain Injuries
Role: Multiple Principal Investigator

- DMS2015552 (MPIs: Xu, **Lu** & MacEachern) 7/1/2020-6/30/2024 7%
 National Science Foundation \$250,000 (total)
 Robust Bayesian Semiparametric Inference of Heterogeneous Causal Effects in
 Observational Studies
 Role: Multiple Principal Investigator
- AWD-115023 (PI: Donneyong) 4/1/2023-3/30/2025 5%
 American Foundation for Suicide Prevention \$449,335 (total)
 Cohort survey-CMS data linkage for multi-level modeling and novel risk
 prediction of suicide in diverse older adults
 Role: Statistician
- 1R01AG073113 (PI: Merfeld) 10/1/2021-9/30/2026 15%
 NIH/National Institute on Aging \$790,817 (first year)
 Towards Health Aging: Quantifying Vestibular Contributors to Age-related
 Changes in Balance and Fall Risk
 Role: Co-Investigator & Statistician
- R01 DA053294 (PI: Shang) 5/15/2022-3/31/2026 5%
 NIH/NIDA \$2,658,697 (total)
 The impact of excise tax structures for retail marijuana on marijuana consumption
 Role: Co-Investigator & Statistician
- 20YVNR35490079 (PI: Mohler) 7/1/2020-6/30/2023 12%
 American Heart Association \$681,160 (total project 2)
 A Comprehensive Approach to Understanding and Ending Youth E-cigarette
 Addiction
 Role: Co-Investigator & Statistician
- AWD110269 (Subcontract PI: **Lu**) 7/1/2022-6/30/2023 15%
 Ohio Department of Medicaid
 Prime: 2015OH5ADM
 2022 Ohio Medicaid Assessment Survey
 Role: Subcontract PI and Lead Statistician for Survey Design and Analysis
- AWD110273 (Subcontract PI: **Lu**) 4/1/2023-6/30/2023 8%
 Ohio Department of Medicaid
 Prime: 2015OH5ADM
 2022 Ohio Medicaid Released Enrollees Study (OMRES)
 Role: Subcontract PI and Senior Statistician for Survey Design and Analysis

Completed

Federal:

- 1R01 HS024263-01 (PI: **Lu**) 9/30/2015-7/31/2020 20%
Agency for Health Care Research and Quality \$918,012 (total)
Causal Inference for Treatment Effect using Observational Healthcare Data with Unequal Sampling Weights
Role: Principal Investigator
- CTSA UL1TR002733 (PI: Jackson) 9/1/2019-10/31/2021 5%
NIH Clinical and Translational Science Awards (CTSA) Program
Biostatistics, Epidemiology, and Research Design (BERD) Core of the OSU's Center for Clinical and Translational Sciences (CCTS)
Role: Co-Investigator & Statistician
- 1P50CA180908-01 (MPI: Wewers/Shields) 9/1/2013-8/31/2018 8%
NIH/National Cancer Institute and FDA \$2,440,947 (1st year direct costs)
OSU Center of Excellence in Regulatory Tobacco Science (OSU-CERTS)
Role: Biostatistician for project 1
- Research Grant (Subcontract PI: **Lu**) 1/1/2015-5/31/2018 20%
Patient-Centered Outcomes Research Institute (PCORI) \$90,818
Prime: ME-1403-13922 (PI: Kim)
Propensity score based methods for CER using multilevel data: What works best when
Role: PI of the Subcontract for methodology development
- Research Grant (Subcontract PI: **Lu**) 4/1/2017-3/31/2018 3%
Nationwide Children's Hospital \$57,530 (total)
Prime: HRSA R40MC30759 (PI: Xiang)
A National Study of Medical and Rehabilitation Services for U.S. Children with Traumatic Brain Injuries.
Role: PI of the Subcontract
- P50CA105632 (PI: Paskett) 4/1/2010-4/30/2017 10%
National Institute of Health \$9,673,245 (total)
Reducing cervical cancer in Appalachia
Role: Director of the Measurement and Analysis Core for this center grant, Biostatistician for project 1 & 2.
- R03HS022277-01 (PI: Xiang) 9/1/2013 – 8/31/2015 5%
Agency for Healthcare Research and Quality \$62,361
National Study of Undertriage of Trauma Patients
Role: Co-investigator

- 1R03DA030662-01A1 (PI: **Lu**) 6/01/2011 - 5/31/2014 20%
National Institute on Drug Abuse/NIH \$148,698 (total)
Causal inference in repeated observational studies
Role: Principal Investigator
- 1R01OH009585-01A1(PI: Xiang) 9/1/2010-8/31/2013 15%
CDC/NIOSH \$747,197 (total)
Second Injuries among U.S. Workers with Disabilities
Role: Co-Investigator
- GRT00010480 (PI: Sun) 2/1/2010-6/30/2012 5%
Health Effect Institute \$182,515 (total)
Diesel Exhaust Exposure and Cardiovascular Dysfunction: ROS Mechanism
Role: Co-PI
- R21 DK088522 (PI: Rajagopalan) 4/1/2010-3/31/2012 7.5%
NIDDK/NIH \$396,500 (total)
T regulatory cells as determinants of inflammation in adipose tissue.
Role: Biostatistician
- GRT00014893 (PI: **Lu**) 11/1/08-7/31/09 10%
Nationwide Children's Hospital \$14,391 (total)
Prime: NIOSH/CDC R01 OH008639 (PI: Huiyun Xiang)
Work-related injuries among immigrant workers
Role: Principal Investigator of the Subcontract
- U01 CA79778 S2 (PI: Gatsonis) 7/1/02-9/30/05 60%
NCI/NIH \$2,460,456 (total)
Biostatistics data Management Center for NLST
Role: Protocol Biostatistician
- CA94032 (PI: Gatsonis) 09/17/02-08/31/05 5%
NCI/ACR (subcontract) \$38,895
ACRIN Fellowship
Role: Co-Investigator

State/Local:

- AWD110273 (Subcontract PI: **Lu**) 7/1/2022-11/30/2022 15%
Ohio Department of Medicaid
Prime: 2015OH5ADM
2022 Ohio Medicaid Released Enrollees Study (OMRES)
Role: Subcontract PI and Senior Statistician for Survey Design and Analysis
- AWD110271 (Subcontract PI: **Lu**) 7/1/2021-6/30/2022 15%

- Ohio Department of Medicaid
Prime: 2015OH5ADM
Ohio Medicaid Community Engagement Evaluation
Role: Subcontract PI and Senior Statistician for Survey Design and Analysis
- AWD110273 (Subcontract PI: **Lu**) 7/1/2021-6/30/2022 15%
Ohio Department of Medicaid
Prime: 2015OH5ADM
2021 Ohio Medicaid Released Enrollees Study (OMRES)
Role: Subcontract PI and Senior Statistician for Survey Design and Analysis
 - AWD110269 (Subcontract PI: **Lu**) 7/1/2021-6/30/2022 15%
Ohio Department of Medicaid \$4,323,816 (total)
Prime: 2015OH5ADM
2021 Ohio Medicaid Assessment Survey
Role: Subcontract PI and Lead Statistician for Survey Design and Analysis
 - GRT60078146 (Subcontract PI: **Lu**) 7/1/2020-6/30/2021 15%
Ohio Department of Medicaid
Prime: ODM202045
Ohio Medicaid Community Engagement Evaluation
Role: Subcontract PI and Senior Statistician for Survey Design and Analysis
 - AWD106516 (Subcontract PI: **Lu**) 9/1/2020- 6/30/2021 10%
Ohio Department of Medicaid \$4,323,816 (total)
Prime: ODM202007
2020 Ohio COVID-19 Survey
Role: Subcontract PI and Lead Statistician for Survey Design and Analysis
 - GRT60072233 (Subcontract PI: **Lu**) 7/3/2019-6/30/2021 15%
Ohio Department of Medicaid \$4,323,816 (total)
Prime: ODM202007
2019 Ohio Medicaid Assessment Survey
Role: Subcontract PI and Lead Statistician for Survey Design and Analysis
 - GRT60076527 (Subcontract PI: **Lu**) 5/1/2020-8/31/2020 10%
Ohio Department of Medicaid (cost share through CPH)
Prime: ODM202007 (OMAS)
2020 Ohio COVID-19 Survey First Iteration
Role: Subcontract PI and Lead Statistician for Survey Design and Analysis
 - GRT60072299 (Subcontract PI: **Lu**) 7/3/2019-6/30/2020 15%
Ohio Department of Medicaid \$1,325,515 (total)
Prime: ODM202045
Ohio Medicaid Group VIII Study
Role: Subcontract PI and Senior Statistician for Survey Design and Analysis

- GRT60072176 (Subcontract PI: Lu) 7/3/2019-6/30/2020 15%
 Ohio Department of Medicaid \$383,631 (total)
 Prime: ODM202013
 2018 Ohio Medicaid Released Enrollees Study (OMRES)
 Role: Subcontract PI and Senior Statistician for Survey Design and Analysis
- GRT60066673 (Subcontract PI: Lu) 3/1/2018-6/30/2019 10%
 Ohio Department of Medicaid \$844,358 (total)
 Prime: ODM201813 (PI: Sahr)
 2018 Ohio Medicaid Released Enrollees Study (OMRES)
 Role: Subcontract PI and Senior Statistician for Survey Design and Analysis
- GRT00049094 (Subcontract PI: Lu) 10/8/2017-12/31/2018 15%
 Ohio Department of Medicaid \$2,525,368 (total)
 Prime: ODM210845
 Ohio Medicaid Group VIII Study
 Role: Subcontract PI and Senior Statistician for Survey Design and Analysis
- ODM201907 (Subcontract PI: Lu) 7/1/2018-6/30/2019 20%
 Ohio Department of Medicaid (Prime: Federal Centers for Medicare and Medicaid Services) \$65,090 (first-year)
 2019 Ohio Medicaid Assessment Survey
 Role: Subcontract PI and Lead Statistician for Survey Design and Analysis
- ODM201707 (Subcontract PI: Lu) 12/12/2016-6/30/2018 20%
 Ohio Department of Medicaid (Prime: Federal Centers for Medicare and Medicaid Services) \$65,090 (first-year)
 2017 Ohio Medicaid Assessment Survey
 Role: Subcontract PI and Lead Statistician for Survey Design and Analysis
- GRT60046532(PI: Lu) 9/30/2014-9/30/2018 5%
 Ohio Department of Medicaid (Federal and State) \$921,762 (total)
 Examining the Impact of Ohio's Medicaid Expansion: Health Improvement for Ohio's Women and Children
 Role: Subcontract PI and Senior Statistician
- ODM201645 (PI: Sahr) 12/22/2015-6/30/2017 10%
 Ohio Department of Medicaid \$477,325 (total)
 Ohio Medicaid Group 8 Study
 Role: Senior Statistician for Survey Design and Analysis
- Collaborative Postdoctoral Research Program (PI: Lu) 9/1/15-11/30/16 0%
 OSU College of Public Health and Nationwide Children's Hospital
 Bayesian Causal Inference in Pediatric Trauma Research
 Role: Principal Investigator with Dr. Xiang as co-PI from NCH

Note: The fund is solely used to support a Biostatistics Post-doc Fellow

- 1505OH5025 (PI: Sahr) 7/30/2014-6/30/2016 25%
 Ohio Department of Medicaid (Prime: Federal Centers for Medicare and Medicaid Services) \$3,477,917 (total)
 2015 Ohio Medicaid Assessment Survey
 Role: Lead Statistician for Survey Design and Analysis
- IPR Methodology Grant (PI: Lu) 7/1/2012-6/30/2013 8%
 Institute for Population Research \$30,695 (total)
 Prime: NICHD R24 HD058484 (PI: Casterline)
 Causal inference in the effect of a dynamic treatment process with applications to reproductive health
 Role: Principal Investigator of the Subcontract
- GRT00252222 (PI: Friedman) 1/1/12-06/30/13 20%
 Ohio Board of Regents \$90,454 (total)
 Ohio Medicaid Assessment Survey
 Role: Co-Investigator/Lead Statistician
- Jean Hankin Research Grant (PI: Jackson) 0%*
 The American Dietetic Association Foundation
 Relationship of red blood cell concentrations of n-3 and n-6 polyunsaturated fatty acids to hip fractures in The Women's Health Initiative
 Role: Statistician
 (*: This is a pilot study and my effort is covered by OSU CCTS research grant.)
- Internal funding 10/1/08-9/30/12 7%
 College of Medicine, OSU \$37,500 (total)
 Comprehensive Epilepsy Program Projects
 Biostatistical support for the projects in Comprehensive Epilepsy Program at the Department of Neurology
 Role: Biostatistician
- CCTS Methodology Grant (PI: Lu) 10/1/2011-6/30/2012 10%
 OSU Center for Clinical and Translation Science \$20,000 (total)
 Prime: NIH CTSA UL1RR025755
 Causal Inference on the Effect of Treatment Delay: An Observational Study of 17P Use in Women with High Risk for Preterm Birth
 Role: Principal Investigator of the Subcontract
- CCTS Methodology Grant (PI: Xu) 9/1/2010-8/31/2011 6%
 OSU Center for Clinical and Translation Science \$20,000 (total)
 Prime: NIH CTSA UL1RR025755
 Bayesian analysis in group randomized trials
 Role: Co-Investigator

- AGMT DTD 01/23/09 (PI: Lu) 1/1/2009-6/30/2011 25%
 The Health Policy Institute of Ohio \$20,991
 Ohio Family Health Survey (OFHS)
 Role: Principal Investigator for Methodology
- Research Contract (PI: Rajagopalan) 3/1/2010-2/28/2011 5%
 Novartis AG. \$632,072 (total)
 Aliskiren effect on Plaque Progression In Established Atherosclerosis using high
 Resolution 3D MRI(ALPINE): A Double Blind Placebo Controlled Trial
 Role: Statistician
- GRT00015737 (PI: Stevenson) 7/1/09-6/30/10 11%
 Ohio Department of Public Safety \$106,655 (total)
 Reduction of MRSA Colonization in EMS Personnel and Equipment to Prevent
 Secondary Injury in Ohio Trauma Patients
 Role: Co-PI
- OH DPS grant (PI: Stevenson) 7/1/08-9/30/09 6%
 Ohio Department of Public Safety \$99,991 (total)
 MRSA Colonization in EMS personnel and Equipment as a Risk Factor for
 Secondary Infections in Ohio Trauma Patients
 Role: Co-PI
- TA-08-38-12-01 (PI: Levine) 09/04/08-09/30/09 12%
 Ohio Family Health Survey \$34,736 (total)
 Ohio Department of Mental Health
 The Impact of Increased Cardiovascular Disease Prevalence on Caregiver Burden
 in Ohio
 Role: Co-Investigator/Statistician
- Internal funding 10/1/08-6/30/09 10%
 College of Medicine, OSU \$7,539
 Pulmonary, Critical Care and Sleep Medicine Projects
 Biostatistical support for the projects on ICU and lung transplant patients
 Role: Biostatistician
- Internal funding 10/1/08-6/30/09 10%
 College of Medicine, OSU \$7,539
 The Comprehensive Transplant Center Projects
 Missing data and survival analysis with the kidney transplant patient database
 Role: Biostatistician
- IPR Methodology Grant (Project PI: Salsberry) 7/1/07-9/30/08 5.5%
 Institute for Population Research \$51,211
 Prime: NICHD/NIH R21 HD047943-01 (PI: Olsen)

Early Menarche and Problem Behaviors in Adolescent Girls

Role: Co-Investigator

- IPR Methodology Grant (Project PI: Reagan) 7/1/07-9/30/08 5.5%
Institute for Population Research \$51,211
Prime: NICHD/NIH R21 HD047943-01 (PI: Olsen)
Intergenerational Influences on Birth Outcomes
Role: Co-Investigator
- Internal funding 10/1/05-6/30/08 25%
College of Medicine, OSU \$150,000 (total)
Pulmonary, Critical Care and Sleep Medicine Projects
Role: Biostatistician
- IPR Methodology Grant (PI: Lu) 7/1/06-6/30/07 13%
Institute for Population Research \$19,691 (total)
Prime: NICHD/NIH R21 HD047943-01 (PI: Olsen)
Causal Inference in Observational Studies via a Propensity Score Approach
Role: Principal Investigator of Subcontract

Oral Presentations

- “Matching with Doses in Observational Studies”, Department of Mathematics and Statistics, University of Maryland at Baltimore County, Dec. 2001.
- “Matching with Doses in Observational Studies”, Department of Decision and Information Technology, University of Maryland, Jan. 2002.
- “Matching with Doses in Observational Studies”, Department of Biostatistics, School of Public Health, Harvard University, Jan. 2002
- “Matching with Doses in Observational Studies”, Department of Health Care Policy, Medical School, Harvard University, Jan. 2002
- “Matching with Doses in Observational Studies”, Department of Biostatistics, School of Public Health, University of Michigan, Feb. 2002
- “Matching with Doses in Observational Studies”, Department of Biostatistics, School of Public Health, University of Pittsburgh, Feb. 2002
- “Matching with Doses in Observational Studies”, Department of Statistics and Actuarial Sciences, University of Central Florida, Feb. 2002
- “Matching with Doses in Observational Studies”, Center for Statistical Sciences, Department of Community Health, Brown University, Feb. 2002
- “Matching with Doses in Observational Studies”, Department of Statistics, Pennsylvania State University, Feb. 2002
- “Matching with Doses in an Observational Study of a Media Campaign against Drug Abuse”, the Winner Session of the Student Paper Competition, the Government Statistics, Social Statistics and Survey Research Methods Section, Joint Statistical Meeting, New York City, NY, August, 2002. (Invited)
- “Propensity Score Matching with Time Dependent Covariates”, Joint Statistical Meeting, Toronto, ON, Canada, August, 2004.

- “Propensity Score Matching with Time Dependent Covariates”, Division of Biostatistics and Epidemiology, School of Public Health, The Ohio State University, March, 2005. (Invited)
- “Sensitivity Analysis in Causal Inference via Bayesian Predictive Densities” (Poster), Valencia International Meeting on Bayesian Statistics, Spain, June, 2006
- “Design Efficiency for Randomized Diagnostic Clinical Trials”, Ninth Meeting of New Researchers’ Meeting in Statistics and Probability, Seattle, WA, August, 2006.
- “Introduction on Propensity Score Matching”, Initiatives in Population Research, The Ohio State University, October, 2006.
- “Implementation of Optimal Matching”, Initiatives in Population Research, The Ohio State University, March, 2007.
- “Reducing Selection Bias via Propensity Score Approach”, Academy Colloquium “Advising on Research Methods” organized by Netherlands Royal Academy of Art and Science, Amsterdam, Netherlands, March, 2007. (Invited)
- “Optimal Propensity Score Matching in Complex Designs”, Initiatives in Population Research, The Ohio State University, May, 2007.
- “Optimal Propensity Score Matching in Longitudinal Studies”, Joint Biostatistics Symposium by Case Western Reserve University, Cleveland Clinic Foundation and The Ohio State University, Cleveland, OH, May, 2007. (Invited)
- “Bayesian Sensitivity Analysis in Causal Inference” (Poster), the Sixth Objective Bayesian Workshop, Rome, Italy, June, 2007.
- “Optimal Propensity Score Matching in Longitudinal Studies”, Joint Statistical Meeting 2007, Salt Lake City, UT, August 2007. (Invited)
- “Diagnostic Randomized Clinical Trials: Study of Design Efficiency”, ENAR 2009, San Antonio, TX, March 2009.
- “Propensity Score Adjustment in Observational Studies”, Center for Clinical and Translational Science, The Ohio State University, May, 2009.
- “Cross-time Matching in Observational Studies”, Atlantic Causal Modeling Conference 2009, Philadelphia, PA, May 2009. (Invited)
- “Propensity Score Adjustment in Causal Inference”, Department of Statistics, Beijing Normal University, Beijing, China, June 2009. (Invited)
- “Cross-time Matching in Observational Studies”, 2nd IMS-China International Conference on Statistics and Probability 2009, Weihai, Shandong, China, July 2009. (Invited)
- “Causal Inference and Propensity Score Adjustment”, Department of Mathematics and Statistics, Wright State University, October 2009. (Invited)
- “Design and Analysis of a Dual-Frame Telephone Survey”, 137th American Public Health Association Annual Meeting, Philadelphia, PA. November 2009. (Invited)
- “Analysis of Missing Data in Clinical Studies”, Center for Clinical and Translational Science, The Ohio State University, December, 2009.
- “Causal Inference and Propensity Score Matching in Repeated Observational Studies”, Center for Biostatistics, The Ohio State University, March, 2010.

- “Biased associated with Using the Propensity Score as a Regression Predictor”, ENAR 2010, New Orleans, LA, March, 2010.
- “Causal Inference and Propensity Score Matching Adjustment”, Division of Biostatistics, Indiana University School of Medicine, April, 2010. (Invited)
- “Propensity Score Matching with Time Varying Treatment”, Center for Biostatistics, The Ohio State University, April, 2010.
- “Causal Inference and Propensity Score Matching Adjustment”, Chinese Center for Disease Control and Prevention, Beijing, China, June, 2010. (Invited)
- “Causal Inference in Repeated Cross-sectional Observational Studies”, International Conference on Statistics and Society, Beijing, China, 2010. (Invited)
- “Program Evaluation for a Repeated Cross-sectional Smoking Cessation Study”, Joint Statistical Meeting, Vancouver, BC, Canada, August 2010.
- “Evaluation of Repeated Smoking Cessation Studies via Propensity Score Matching Approach”, 138th American Public Health Association Annual Meeting, Denver, CO. November 2010. (Invited)
- “Using Propensity Score as a Regression Covariate or Matching: a Comparative Study of Treatment Effect Estimation Bias”, 34th Annual Midwest Biopharmaceutical Statistics Workshop, Muncie, IN, May 2011. (Invited)
- “Evaluating long term effects of a psychiatric treatment using instrumental variable and propensity score matching approaches”, Center for Homeless Prevention Studies Method Workshop, New York State Psychiatric Institute, New York City, NY, June 2011. (Invited)
- “Causal Inference on the Effect of Treatment Delay: An Observational Study of 17P Use in Women with High Risk for Preterm Birth”, Center for Biostatistics, The Ohio State University, November 2011.
- “Propensity Score Analysis in Observational Studies”, Shanghai Center for Disease Control and Prevention, Shanghai, China, June 2012. (Invited)
- “Statistical Methods for Comparative Effectiveness Research”, Philips Healthcare China, Shanghai, China, June 2012. (Invited)
- “Propensity score analysis in the presence of treatment delay”, Second Joint Biostatistics Symposium, Beijing, China, July 2012. (Invited)
- “Causal Link Between Antiepileptic Drugs and Suicide Attempts: A Propensity Score Matching Analysis in Patients with Bipolar Disorder”, Joint Statistical Meeting, San Diego, CA, August 2012. (Invited)
- “Practical Issues in Design and Analysis of Dual-Frame Telephone Surveys”, ENAR 2013, Orlando, FL, March, 2013.
- “Sensitivity analysis for an observational study on marriage dissolution”, Joint Statistical Meeting, Montreal, QC, Canada, August 2013.
- “An Introduction to Sensitivity Analysis for Observational Data”, the Tenth International Conference on Health Policy Statistics, Chicago, IL, October 2013. (Short course presentation)
- “Sensitivity of Unmeasured Confounding in Event History Analysis: A Study on the Effect of Cohabitation on Timing of Marital Disruption”, Institute for Population Research, The Ohio State University, January, 2014. (Invited)

- “Capturing Special Populations in Telephone Survey: Experiences from OMAS” (Poster), the American Association of Public Opinion Research Annual Conference, Anaheim, CA, May 2014.
- “Estimating Causal Effects in Complex Surveys using Propensity Score Stratification and Weighting”, Frontiers of Hierarchical Modeling in Observational Studies, Complex Surveys and Big Data Conference, College Park, MD, May 2014.
- “Survey Data Analysis for Health Research”, Summer Program, Center for Public Health Practice, College of Public Health, the Ohio State University, Columbus, OH, June 2014. (Short course presentation)
- “Propensity Score Analysis with Partially Missing Covariates”, the Joint Statistical Meeting, Boston, MA, August 2014. (Invited)
- “Propensity Score Adjustment for Estimating Population Causal Effect with Unequal Sampling Weights”, Division of Biostatistics and Epidemiology, Cincinnati Children’s Hospital, Cincinnati, OH, October 2014. (Invited)
- “Propensity Score Analysis in Health Outcome Research”, Department of Epidemiology and Statistics, School of Public Health, Capital Medical University, Beijing, March 2015. (Invited)
- “Propensity Score Analysis in Health Outcome Research”, Center for Evidence-Based Medicine, Peking Union Medical College Hospital, Chinese Academy of Medical Sciences, Beijing, March 2015. (Invited)
- “Propensity Score Adjustment for Estimating Population Causal Effect with Unequal Sampling Weights”, Department of Statistics, School of Mathematical Sciences, Peking University, Beijing, June 2015. (Invited)
- “Propensity Score Adjustment for Estimating Population Causal Effect with Unequal Sampling Weights”, Department of Statistics, School of Mathematical Sciences, Beijing Normal University, Beijing, June 2015. (Invited)
- “Estimating Population Average Effects in Complex Surveys Using Propensity Score Adjustment”, The Fifth International Biostatistics Workshop of Jilin University, Changchun, Jilin, China, June 2015. (Invited)
- “Comparative Effectiveness Research using Propensity Score Adjustment: A Population Perspective”, ISBS-DIA Joint Symposium on Biopharmaceutical Statistics, Beijing, China, June 2015. (Invited)
- “Estimating Population Average Effects in Observational Data with Unequal Sampling Weights”, The Fifth IMS-China International Conference on Statistics and Probability, Kunming, Yunnan, China, July 2015.
- “Causal Inference with Complex Surveys—A Statistical Framework for Evidence-Based Decision Making in Health Care”, Department of Epidemiology and Biostatistics, School of Public Health, University of Maryland, College Park, MD, September 2015. (Invited)
- “Propensity Score Adjustment for Estimating Population Causal Effect using Health Surveys with Unequal Weights”, Department of Statistics and Actuarial Sciences, University of Waterloo, Waterloo, ON, October 2015. (Invited)
- “Causal Inference and Propensity Score Matching Adjustment in Health Sciences”, The Research Institute at Nationwide Children's Hospital, Columbus, OH, December 2015. (Invited)

- “A Nonparametric Bayesian Approach for Estimating Heterogeneous Treatment Effect”, ENAR 2016, Austin, TX, March, 2016. (Invited)
- “A Nonparametric Bayesian Approach for Estimating Heterogeneous Treatment Effect”, ISBA 2016, Cagliari, Italy, June, 2016. (Invited)
- “Causal Inference with Unequal Sampling Weights—Investigating Policy Effect Using Population Health Surveys”, the Joint Statistical Meeting, Chicago, IL, August 2016. (Invited)
- “A Nonparametric Bayesian Approach for Estimating Causal Effect”, Academy of Mathematics and System Science, Chinese Academy of Sciences, Beijing, China, December 2016. (Invited)
- “Model Assisted Approach for Estimating Average Causal Effect: A Bayesian Perspective”, the 10th International Chinese Statistical Association (ICSA) international conference, Shanghai, China, December 2016. (Invited)
- “Bayesian SAE Modeling with Benchmarking and Spatial Smoothing for Estimating Health Policy Impact”, ENAR 2017, Washington, DC, March, 2017. (Invited)
- “Nearly-Optimal Matching Algorithm for Triplet Matching”, 2017 International Chinese Statistical Association (ICSA) Applied Statistics Symposium, Chicago, IL, June 2017. (Invited)
- “Model Assisted Sensitivity Analyses for Hidden Bias in Causal Inference with Binary Outcomes”, School of Statistics, Beijing Normal University, Beijing, December 2017. (Invited)
- “Model Assisted Sensitivity Analyses for Hidden Bias in Causal Inference with Binary Outcomes”, Department of Statistics, the Ohio State University, Columbus, OH, January 2018. (Invited)
- “Model Assisted Sensitivity Analyses for Hidden Bias in Evaluating Mortality Differences across Multiple Trauma Center Levels”, Global Symposium of Innovation in Trauma Research Methods, Columbus, OH, June 2018. (Invited)
- “Estimating Heterogeneous Treatment Effects for Latent Subgroups in Observational Studies”, BAYES2018: Bayesian Biostatistics Workshop, Cambridge, UK, June 2018.
- “Bayesian Model-based Sensitivity Analysis for Heterogeneous Treatment Effects”, ISBA 2018, Edinburgh, UK, June 2018.
- “Poly-Matching for Observational Studies—A Comparative Trauma Care Study”, the Joint Statistical Meetings, Vancouver, BC, Canada, July 2018. (Invited)
- “Matching Design for Causal Inference in Complex Observational Studies”, Southern California Permanente Medical Group, Pasadena, CA, March 2019. (Invited)
- “Model Assisted Sensitivity Analyses for Hidden Bias in Observational Studies”, Department of Statistics, School of Mathematical Sciences, Peking University, Beijing, China, June 2019. (Invited)
- “Model Assisted Sensitivity Analyses for Hidden Bias in Observational Studies”, 2019 International Chinese Statistical Association (ICSA) China Conference, Tianjin, China, July 2019. (Invited)

- “Model Assisted Sensitivity Analyses for Hidden Bias in CER”, the Joint Statistical Meetings, Denver, CO, July 2019. (Invited)
- “Matching-Based Classification Tree for Subgroup Effect Identification in Observational Data”, the Joint Statistical Meetings, virtual meeting, August 2020.
- “Utilizing Real-World-Data and Real-World-Evidence in Drug Development and Evaluation”, 2020 ICSA Applied Statistics Symposium, virtual meeting, December 2020. (Short course presentation)
- “Estimating Causal Effect of Restricted Mean Survival Time Difference based on Matched Design in Observational Data”, 2021 ICSA Applied Statistics Symposium, virtual meeting, September 2021. (Invited)
- “Utilizing Real-World-Data and Real-World-Evidence in Drug Development and Evaluation”, 2021 ASA Biopharmaceutical Section Regulatory-Industry Statistics Workshop, virtual meeting, September 2021. (Short course presentation)
- “Estimating Marginal Causal Effects for Observational Survival Outcomes via Matched Design”, Department of Biomedical Informatics, the Ohio State University, March 2022. (Invited)
- “Estimating Marginal Causal Effects for Survival Outcomes via Restricted Mean Survival Time”, Department of Biostatistics, Columbia University, March 2022. (Invited)
- “Causal Inference in Observational Survival Data: A Matched Design for Restricted Mean Survival Times Evaluation”, ENAR 2022, Houston, TX, March 2022. (Invited)
- “Causal Inference for Survival Outcomes in Translational Research”, Bench to Outcomes Seminar Series, Nationwide Children’s Hospital, Columbus, OH, September 2022. (Invited)
- “Estimating Marginal Causal Effects with Real World Survival Data via Restricted Mean Survival Time”, 2022 ASA Biopharmaceutical Section Regulatory-Industry Statistics Workshop, Bethesda, MD, September 2022. (Poster presentation)
- “Primal/Simultaneous sensitivity analysis for matched design”, BIO-PhRMA Workshop on Advancing Analytical Methodologies for Unmeasured Confounders in RWE, Bethesda, MD, October 2022. (Invited)
- “Causal Inference Methods in Epidemiological Study of Trauma Care and Other Public Health Research”, Southeast University, School of Public Health, Nanjing, Jiangsu, China, November 2022. (Invited)
- “Flexible Template Matching for Observational Study Design”, ENAR 2023, Nashville, TN, March 2023.
- “Estimating Marginal Causal Effects for Observational Survival Data”, Department of Epidemiology & Biostatistics, University of California, San Francisco, April 2023. (Invited)
- “Matched Design for Augmenting the Control Arm in Randomized Trials using RWD”, 15th Annual FDA/AdvaMed Medical Device Statistical Issues Conference, Washington DC, May 2023. (Invited)

Professional Activities

Editorial Services:

- Associate Editor for *Annals of Applied Statistics*, 2023-present
- Associate Editor for *Observational Studies*, 2018-present
- Associate Editor for *Journal of Statistical Computation and Simulation*, 2011-2023
- Editorial Board Member for *Contemporary Clinical Trials*, 2020-present
- Book Reviewer for MIT press, 2023
- Journal Reviewer for
 - Methodological work:
Annals of Statistics; *Journal of the American Statistical Association*; *Biometrika*; *Biometrics*; *Annals of Applied Statistics*; *Biostatistics*; *Journal of the Royal Statistical Society Series B*; *Journal of the Royal Statistical Society Series C*; *Statistics in Medicine*; *Bayesian Analysis*; *Journal of Computational and Graphical Statistics*; *Journal of Educational and Behavioral Statistics*; *Technometrics*; *Statistica Sinica*; *Health Services and Outcomes Research Methodology*; *International Journal of Biostatistics*; *Journal of Statistical Computation and Simulation*; *Computational Statistics and Data Analysis*; *Communication in Statistics—Simulation and Computation*; *Life Time Data Analysis*; *Statistics and Probability Letters*; *Statistica Neerlandica*; *Journal of Biopharmaceutical Statistics*; *Observational Studies*; *Journal of Applied Statistics*; *Australian & New Zealand Journal of Statistics*; *Statistics and Its Interface*; *Contemporary Clinical Trials*; *Pharmaceutical Statistics*; *STATA Journal*; *American Journal of Epidemiology*; *Sociological Methodology*
 - Statistical Applications:
Journal of American Medical Association; *Evaluation Review*; *Journal of Marriage and Family*; *Radiology*; *Medical Decision Making*; *American Journal of Pathology*; *Contemporary Economic Policy*; *Obesity*; *PLoS One*; *Circulation: Cardiovascular Quality and Outcomes*; *Critical Care Medicine*

Grant Review/Expert Panel:

- Member of the DSMB for NIDA-sponsored study “Evaluating the Impact of Fentanyl Test Strip Use Among Rural and Urban Populations” and CDC-sponsored study “Evaluation of a Novel Intervention to Prevent Polysubstance Overdoses Involving Illicit Stimulants”, 2023-present.
- Member of the DSMB for NIH-sponsored study 2021P002586 “Menstrual-phase-dependent differences in response to sleep loss”, 2022-present.
- Member of National Institute of Neurological Disorders and Stroke (NINDS) ZNS1 G42 Special Emphasis Panel on Early Phase Trials & Comparative Effectiveness Research, 2021-2022.
- Member of the Centers for Medicare and Medicaid Services (CMS)’s Expert Panel on HRRP evaluation, 2019-2020.

- Member of Health Care Research Training (HCRT) Study Section, Agency for Healthcare Research and Quality (AHRQ), 2017-2018.
- Grant Proposal Reviewer for
National Science Foundation: Methodology, Measurement, and Statistics Program (2008, 2010, 2017, 2021)
Translational Data Analytics Institute, OSU, the Interdisciplinary Research Pilot Awards program (2022)
Initiative in Population Research, OSU, Seed Grant Program (2011, 2013)
2015 Ohio Medicaid Assessment Survey Sponsored Research Program (2015)
Medical Research Council, United Kingdom (2016)
Patient-Centered Outcomes Research Institute (PCORI): Method Consultation (2017-2018)

Conference Organizing Activities:

- Co-Chair of the organizing committee for the 2nd Global Symposium of Research Methodology Innovation in Trauma and Emergency Care, 2023- 2024.
- Member of 2022 Joint Statistical Meetings Program Committee, 2021-2022.
- Member of Organizing Committee for Bayesian Causal Inference Workshop, 2018-2019.
- Member of ASA Health Policy Statistics Section student paper competition review committee, 2017-2018.
- Co-Chair of the organizing committee for Global Symposium of Innovation in Trauma Research Methods, 2017- 2018.
- Member of the Stata Conference 2018 scientific committee, 2017- 2018
- Member of Eastern North American Region (ENAR) of International Biometric Society 2017 Spring Meeting Program Committee, 2016-2017
- Member of the Stata Conference 2015 scientific committee, 2015
- Member of the Tenth International Conference on Health Policy Statistics (ICHPS) scientific organizing committee, 2012-2013
- Member of the Ninth International Conference on Health Policy Statistics (ICHPS) scientific organizing committee, 2010-2011
- Organizer, invited session on “Novel Development of Matched Designs for Complex Observational and Randomized Studies” (accepted), Joint Statistical Meetings, Toronto, ON, Canada, 2022-2023.
- Organizer, ASA virtual traveling course for Columbus chapter, 2023.
- Organizer, invited session on “New Advances in Design and Analysis of Bayesian Causal Inference”, The International Society for Bayesian Analysis World Meeting, Montreal, Canada, 2021-2022.
- Organizer, invited session on “New Advances in Causal Inference for Time-to-Event Data”, Eastern North American Region (ENAR) of International Biometric Society 2022 Spring Meeting, Houston, TX, 2021-2022.
- Organizer, ASA virtual traveling course for Columbus chapter, 2022.
- Organizer, Roundtable discussion sessions for 2021 Joint Statistical Meetings, Virtual.
- Organizer, ASA virtual traveling course for Columbus chapter, 2021.

- Organizer, contributed session on “Novel Development of Bayesian Methods in Causal Inference—Some Design Perspectives”, The International Society for Bayesian Analysis World Meeting, Edinburgh, UK, 2018.
- Organizer, invited session on “Novel Development of Matching Designs for Complex Observational Studies”, Joint Statistical Meetings, Vancouver, BC, Canada, 2018.
- Organizer, invited session on “New Developments of Small Area Estimation Models”, Eastern North American Region (ENAR) of International Biometric Society 2017 Spring Meeting, Washington DC, 2017.
- Organizer, invited session on “New Development on Matching Methodology for Causal Inference”, 2017 International Chinese Statistical Association (ICSA) Applied Statistics Symposium, Chicago, IL, 2017.
- Organizer, invited session on “New Development for Causal Inference in Health Policy Statistics: A Bayesian Perspective”, Joint Statistical Meetings, Baltimore, MD, 2017.
- Organizer, invited session on “New Developments of Bayesian Methods for Causal Inference”, Eastern North American Region (ENAR) of International Biometric Society 2016 Spring Meeting, Austin, TX, 2016.
- Organizer, invited session on “Design and analysis issues with modern population telephone surveys”, Joint Statistical Meetings, Chicago, IL, 2016.
- Organizer, short course on “Comparative Effectiveness Research”, the Tenth International Conference on Health Policy Statistics (ICHPS), Chicago, IL, 2013.
- Organizer, invited session on “Causal Inference”, International Chinese Statistical Association (ICSA) 2012 Applied Statistics Symposium, Boston, MA, 2012
- Organizer, invited session on “Causal Inference in Biomedical Sciences: Recent Development in Methodology”, The 2nd Joint Biostatistics Symposium, Beijing, China, 2012.
- Organizer, short course on “Multiple Comparisons for Making Decisions”, the Ninth International Conference on Health Policy Statistics (ICHPS), Cleveland, OH, 2011.
- Organizer, invited session on “Advanced Bias Adjustment Techniques”, 34th Annual Midwest Biopharmaceutical Statistics Workshop, Muncie, IN, 2011.
- Organizer, invited session on “Causal Inference in Observational Studies”, International Conference on Statistics and Society, Beijing, China, 2010.
- Organizer, topic-contributed session on “New Ideas for Matched Analysis in Observational Studies”, Joint Statistical Meeting, Vancouver, BC, Canada, 2010.

Professional Leadership:

- Program Chair, Section on Statistics in Epidemiology, American Statistical Association, 2020-2022.
- Representative to Council of Chapters, American Statistical Association, 2018-present.
- Member of Planning Committee for American Statistical Association’s Columbus Chapter, 2017- 2018.

- Director, the Measurement and Analysis Core for P50CA105632 Center Grant (Reducing Cervical Cancer in Appalachia), 2012-2016.
- Lead Statistician, the Ohio Medicaid Assessment Survey series, 2008-present (surveys conducted in 2008, 2010, 2012, 2015, 2017, 2019 and 2021).
- Director, Methodology Core of Institute in Population Research, The Ohio State University, 2010-2011, 2012-2014.

Local Services:

- Judge, ASA DataFest@OSU, Columbus, Ohio, 2019, 2021.
- Member, OSU CCTS Davis Bremer Path to K Grant Review Panel, 2021.
- Member, OSU CCTS Biostatistics, Epidemiology and Research Design (BERD) core, 2017-2021.
- Co-organizer, reading group on “Bayesian Methods for Causal Inference”, Statistics Psychology and Marketing (SPAM) Research Group, The Ohio State University, 2021.
- Co-organizer, working group on “propensity score matching in social sciences”, Initiative in Population Research, The Ohio State University, 2006-2008.

Professional Affiliations

- Member of the American Statistical Association, 2001—present
- Member of the Institute of Mathematical Statistics, 2003—2008, 2020—present
- Member of the International Biometric Society, 2003—2008
- Member of the International Chinese Statistical Association, 2007—present
- Member of the American Public Health Association, 2010—2012, 2022—present
- Member of the International Society for Bayesian Analysis, 2014—present

Teaching

- The Ohio State University, Oct. 2005—Present
 - Design and Analysis of Studies in the Health Sciences I (for masters of public health)
Fall 2005 (number of students: 56); Winter 2006 (16); Fall 2006 (58); Winter 2007 (31); Fall 2007 (66); Spring 2013 (28).
 - Design and Analysis of Studies in the Health Sciences II (for masters of public health)
Winter 2009 (39); Spring 2015 (32).
 - Applied Biostatistics II (for masters of public health)
Spring 2022 (94).
 - Statistical Methods for Public Health II (for masters of public health)
Spring 2007 (32); Spring 2008 (24); Spring 2009 (13); Spring 2010 (17); Spring 2011 (18).
 - Survey Sampling Methods (for graduate students in Biostatistics/Statistics/ Public Health)
Winter 2008 (12); Winter 2010 (6); Winter 2012 (13); Fall 2013 (16).

- Applied Statistical Analysis with Missing Data (for graduate students in Biostatistics/Statistics/Public Health)
Fall 2008 (10); Fall 2010 (16); Fall 2012 (10); Fall 2014 (4);
Fall 2016 (13); Fall 2018 (16); Fall 2020 (13); Fall 2022 (18).
- Introduction to Causal Inference for Health Science Research (for graduate students in Biostatistics/Statistics/Public Health)
Fall 2017 (22); Fall 2019 (21); Fall 2021 (33).
- Biostatistics PhD Group Study on Causal Inference for Observational Studies
Spring 2020 (5); Summer 2020 (4); Spring 2021 (6); Summer 2021 (5);
Summer 2022 (3).
- Biostatistics PhD seminar on research
Fall 2014 (7); Spring 2016 (6).
- Mini e-Module on Overview of Causal Inference for OSU CCTS researchers (pre-recorded)
- Brown University, Sep. 2002—Sep. 2005
 - Introduction to Biostatistics (for masters of public health and undergraduates)
 - Introduction to Regression Analysis (for masters of public health and undergraduates)
 - Regression Analysis for Discrete and Event-time Data (for masters of public health and undergraduates)
 - Principles of Biostatistics and Data Analysis (for Ph.D in Biostatistics and Epidemiology)
 - Modern Method for Categorical Data Analysis (for Ph.D in Biostatistics)
 - Generalized Linear Model (for Ph.D in Biostatistics)
- Instructor, the Wharton School, University of Pennsylvania, Summer 1999
A semester-equivalent summer course on Introductory Business Statistics

Major Advising Activities

Honors

- Advisor of 2020 OSU CCTS Annual Scientific Meeting poster competition winner: Second place for graduate student section (student: Zihan Lin)
- Advisor of 2019 Joint Statistical Meetings student paper competition winner: Biometrics Section (student: Giovanni Nattino).
- Advisor of 2019 OSU CCTS Annual Scientific Meeting poster competition winner: Third place for graduate student section (student: Yuyang Zhang)
- Advisor of ENAR 2019 Student Paper Award winner (student: Giovanni Nattino)
- Advisor of 2015 Joint Statistical Meetings student paper competition winner: The Health Policy Statistics Section (student: Robert Ashmead).

- Advisor of 2014 Joint Statistical Meetings student paper competition winner: The Government Statistics, Social Statistics and Survey Research Methods Section (student: Robert Ashmead).

Post-doctoral Fellows

Marco Benedetti, PhD in Statistics, 2020-2021

Center for Injury Research and Policy

Abigail Wexner Research Institute at Nationwide Children's Hospital

Research topic: "Causal Inference with Complex Survey Data for Health Policy Research"

Role: Advisor for causal inference methodology (co-advising with Dr. Zhu)

Current Position: Data Scientist II, Nationwide Children's Hospital

Nathan Doogan, PhD in Social Work, 2014-2018

OSU Center of Excellence in Regulatory Tobacco Science

Role: Advisor (co-advising with Dr. Wewers)

Current Position: Research Analytics Consultant, The Ohio Colleges of Medicine Government Resource Center

Megan Roberts, PhD in Psychology, 2015-2017

OSU Center of Excellence in Regulatory Tobacco Science

Role: Advisor (co-advising with Dr. Ferketich and Dr. Berman)

Current Position: Assistant Professor, Division of Health Behavior and Health Promotion, College of Public Health, The Ohio State University

Ling Wang, PhD in Statistics, 2015-2016

Research topic: "Causal Inference with Bayesian Nonparametric Models for Comparative Trauma Research"

Role: Advisor (co-advising with Dr. MacEachern and Dr. Xiang)

Current position: Assistant Professor of Medicine, Department of Medicine, Michigan State University.

Doctoral Students

- Dissertation Advisor (served as the candidacy exam and dissertation committee chair for students marked with *)
 - Ruoyuan Qian, Ph.D. candidate in Biostatistics, Interdisciplinary PhD Program in Biostatistics, the Ohio State University, 2023- present
 - Biqing Yang, Ph.D. candidate in Statistics, the Ohio State University, 2022-present (Co-advisor with Dr. Xinyi Xu at Department of Statistics)
 - Sean Tomlin, Ph.D. candidate in Biostatistics, Interdisciplinary PhD Program in Biostatistics, the Ohio State University, 2021- present

- Zhizhen Zhao, Ph.D. candidate in Statistics, the Ohio State University, 2021-present (Co-advisor with Dr. Xinyi Xu at Department of Statistics)
- Yuxuan Xin, Ph.D. candidate in Statistics, the Ohio State University, 2021-present (Co-advisor with Drs. Xinyi Xu and Steve MacEachern at Department of Statistics)
- Ruochen Zhao*, Ph.D. candidate in Biostatistics, Interdisciplinary PhD Program in Biostatistics, the Ohio State University, 2021- present
- Zihan Lin*, Ph.D. candidate in Biostatistics, Interdisciplinary PhD Program in Biostatistics, the Ohio State University, 2019- 2022 (Co-advisor with Dr. Ai Ni at CPH)
2020 OSU CCTS Annual Scientific Meeting poster competition winner:
Second place for graduate student section
Dissertation title: Causal Inference for Observational Survival Data using Restricted Mean Survival Time Model
Current Position: Biostatistics Senior Manager, Bristol Myers Squibb, Berkeley Heights, NJ
- Yuyang Zhang*, Ph.D. in Biostatistics, Interdisciplinary PhD Program in Biostatistics, the Ohio State University, 2017- 2020.
2019 OSU CCTS Annual Scientific Meeting poster competition winner:
Third place for graduate student section
Dissertation title: Heterogeneous Treatment Effect Estimation in Observational Studies using Tree-based methods
Current Position: Statistician at Medpace Clinical Pharmacology LLC, Cincinnati, OH.
- Giovanni Nattino*, Ph.D. in Biostatistics, Interdisciplinary PhD Program in Biostatistics, the Ohio State University, 2016- 2019. (Co-advised with Dr. Stanley Lemeshow at CPH)
Student travel award recipient of the 12th International Conference on Health Policy Statistics, 2018.
Student travel award recipient of The Government Statistics, Social Statistics and Survey Research Methods Section of 2018 Joint Statistical Meetings.
Distinguished student paper award recipient of the International Biometric Society Eastern North American Region (ENAR), 2019.
Student travel award recipient of Biometrics Section of 2019 Joint Statistical Meetings.
Dissertation title: Causal Inference in Observational Studies with Complex Design: Multiple Arms, Complex Sampling and Intervention Effects

Current Position: Unit Head of Causal Inference in Epidemiology at the Istituto di Ricerche Farmacologiche Mario Negri IRCCS, Italy.

- Robert Ashmead*, Ph.D. in Biostatistics, Interdisciplinary PhD Program in Biostatistics, the Ohio State University, 2012-2014.
Student paper competition winner of The Government Statistics, Social Statistics and Survey Research Methods Section of 2014 Joint Statistical Meetings.
Student paper competition winner of the Health Policy Statistics Section of 2015 Joint Statistical Meetings.
Dissertation title: “Propensity Score Methods for Estimating Causal Effects from Complex Survey Data”
Current position: Assistant Director, Informatics, Ohio Colleges of Medicine Government Resource Center, Columbus, OH.
- Erinn Hade*, Ph.D. in Biostatistics, College of Public Health, the Ohio State University, 2007-2012.
Dissertation title: “Propensity Score Adjustment in Multiple Group Observational Studies: Comparing Matching and Alternative Methods”
Current position: Associate Professor, Department of Population Health at NYU Grossman School of Medicine, New York, NY.
- Chih-Lin Li*, Ph.D. in Biostatistics, College of Public Health, the Ohio State University, 2008-2011.
Dissertation title: “Propensity Score Matching in Observational Studies with Multiple Time Points”
Current position: Senior Biostatistician at Boehringer Ingelheim Pharmaceuticals, Danbury, CT.
- Yan Li*, Ph.D. in Biostatistics, College of Public Health, the Ohio State University, 2007-2010. (Co-advised with Dr. Jason Hsu in Statistics Department)
Dissertation title: “Multiple Comparison in Discrete Data Setting”
Current position: Senior Statistician at Amylin Pharmaceuticals, San Diego, CA.
- Advisor/Host of Visiting Scholars
Xingwei Tong, Professor of Statistics (Beijing Normal University), 2016-2017
Dingjiao Cai, Ph.D Candidate in Statistics (Beijing Normal University), 2016-2017
Zhaonan Li, Ph.D Candidate in Statistics (Peking University), 2015-2016 (Co-advising with Dr. Xinyi Xu)
- Dissertation Committee Member
Sejal Patel, Epidemiology, CPH, OSU, 2022-2023
Andreas Teferra, Epidemiology, CPH, OSU, 2020-2022

- Rebecca Cash, Epidemiology, CPH, OSU, 2019-2020
 Brittney Keller-Hamilton, Epidemiology, CPH, OSU, 2018-2019
 Wenna Xi, Biostatistics, CPH, OSU, 2018- 2019
 Yanan Shang, Environmental Health Sciences, CPH, OSU, 2018
 Thalia Farietta, Epidemiology, CPH, OSU, 2016-2017
 Jin Peng, Epidemiology, CPH, OSU, 2016-2017
 Mark Burch, Biostatistics, CPH, OSU, 2015-2016
 David Kline, Biostatistics, CPH, OSU, 2014-2015
 Ling Wang, Epidemiology, CPH, OSU, 2014-2015
 Yue Jin, Epidemiology, CPH, OSU, 2014-2015
 Julianna Nemeth, Health Behavior and Health Promotion, CPH, OSU, 2013-2015
 Shasha Bai, Biostatistics, CPH, OSU, 2013-2014
 Xiaoxi Yao, Health Service and Management Policy, CPH, OSU, 2012-2014
 Muhammad Zeeshan, Health Service and Management Policy, CPH, OSU, 2010-2013
 John Elliot, College of Social Work, OSU, 2010-2012
 Michele Battle-Fisher, Health Behavior and Health Promotion, CPH, OSU, 2009-2011
- Candidacy Exam Committee Member

Wei-En Lu, Biostatistics, CPH, OSU, 2022-present
 Qingyu Chen, Biostatistics, CPH, OSU, 2022-2023
 Andreas Teferra, Epidemiology, CPH, OSU, 2020-2021
 Rebecca Cash, Epidemiology, CPH, OSU, 2018-2019
 Sejal Patel, Epidemiology, CPH, OSU, 2018-2022
 Evan Goldstein, Health Services and Management Policy, CPH, OSU, 2018-2021
 Wenna Xi, Biostatistics, CPH, OSU, 2017- 2018
 Yanan Shang, Environmental Health Sciences, CPH, OSU, 2017-2018
 Brittney Keller-Hamilton, Epidemiology, CPH, OSU, 2017-2018
 Luting Xu, Health Behavior and Health Promotion, CPH, OSU, 2016
 Jin Peng, Epidemiology, CPH, OSU, 2015-2016
 Katie Swidarski, Health Behavior and Health Promotion, CPH, OSU, 2015-2016
 Mark Burch, Biostatistics, CPH, OSU, 2015
 Thalia Farietta, Epidemiology, CPH, OSU, 2014-2016
 Ling Wang, Epidemiology, CPH, OSU, 2013-2014
 Yue Jin, Epidemiology, CPH, OSU, 2013-2014
 David Kline, Biostatistics, CPH, OSU, 2013-2014
 Julianna Nemeth, Health Behavior and Health Promotion, CPH, OSU, 2012-2013
 Shasha Bai, Biostatistics, CPH, OSU, 2012-2013
 Xiaoxi Yao, Health Service and Management Policy, CPH, OSU, 2011-2012
 Muhammad Zeeshan, Health Service and Management Policy, CPH, OSU, 2009-2010
 Paul Rosile, Environmental Health Sciences, CPH, OSU, 2010-2012
 Tim Sahr, Health Behavior and Health Promotion, CPH, OSU, 2010-2011
 Tao Xiao, Biostatistics, CPH, OSU, 2009-2010

Amit Kulkarni, College of Pharmacy, OSU, 2006
Rahul Shenolikar, College of Pharmacy, OSU, 2006

- Curriculum Committee Member
Eli Raver, Health Service and Management Policy, CPH, OSU, 2023-present

Master Students

- Thesis Advisor
Taehyun Kim, MS in Biostatistics, CPH, OSU, 2023-present.
Chen Zhao, MS in Actuarial and Risk Management (Concentration: Data Science), College of Arts and Sciences, the Ohio State University, 2019-2020. (Co-advised with Dr. Chunsheng Ban at Department of Mathematics)
Joseph Maginnity, MS in Biostatistics, CPH, OSU, 2019-2020.
Weiwei Jiao, MS in Biostatistics, CPH, OSU, 2016-2017.
Danqi Zhu, MS in Biostatistics, CPH, OSU, 2013-2015.
Peter Sprangers, MS in Biostatistics, CPH, OSU, 2009-2011.
Brian Palmer, MPH in Biostatistics, CPH, OSU, 2007-2011.
Michelle Wright, MPH in Public Health, CPH, OSU, 2007-2008.
- Thesis Committee Member
Mariah Eisner, MS in Biostatistics, CPH, OSU, 2019-2020.
- Academic Advisor
Portia Kyei, MPH in Biostatistics, CPH, OSU, 2021-2022.
Kyle Jagodzinski, MPH in Biostatistics, CPH, OSU, 2021-2022.
Miriam Goldstein, MS in Biostatistics, CPH, OSU, 2021-2022.
Michelle Nassal, MPH in Biostatistics, CPH, OSU, 2020-2022.
Benjamin Buck, MPH in Biostatistics, CPH, OSU, 2020-2022.
Melica Nikahd, MS in Biostatistics, CPH, OSU, 2020-2021.
Carly Middleton, MS in Biostatistics, CPH, OSU, 2020-2021.
Shankar Kaleeswaran Mani, MS in Biostatistics, CPH, OSU, 2020-2022.
Katherine Hunold, MPH in Biostatistics, CPH, OSU, 2019-2021.
Harley Vossler, MS in Biostatistics, CPH, OSU, 2019-2020.
Mariah Eisner, MS in Biostatistics, CPH, OSU, 2018-2019.
Joseph Maginnity, MS in Biostatistics, CPH, OSU, 2018-2019.

Career Award Mentorship

- Amir Asiaeetaheri, PhD. 2020- present
K99 NHGRI
Causal Effect Estimation of Regulatory Elements: Characterizing Down-stream Effects of Targeted Therapies
- Brittney Keller-Hamilton, PhD. 2023- present
K01 NIDA
Effects of tobacco cut and nicotine form on the abuse liability of moist snuff

OSU Committee Services

Junior Faculty Mentorship

- Ni Ai, Assistant Professor of Biostatistics, College of Public Health, 2020-present.
- Brandon Koch, Assistant Professor of Biostatistics, College of Public Health, 2023- present.
- Shasha Bai, Research Assistant Professor, Department of Biomedical Informatics, College of Medicine, 2019- 2021.

University

- Member, Center for Clinical Translational Science Pilot Council, 2019-2022
- Member, Review committee of President's Postdoctoral Scholar Program, 2018
- Chair, Graduate Studies Committee, Interdisciplinary PhD Program in Biostatistics, 2014-2016
- Member, Oversight committee of OSU's Center for Human Resource Research, 2014-2017
- Judge, Denman Undergraduate Research Forum, 2012, 2014

College of Public Health

- Member, College Appointment Promotion and Tenure Committee, 2021-present
- External Evaluator for College Peer Teaching Evaluation Committee, 2023
- Member, College Research Advisory Committee, 2020-2021
- Member, College Leadership Search Committee, 2019-2022
- Member, College HOPES Director Search Committee, 2016-2018
- Member, College-wide Faculty Search Committee, 2014-2015
- Member, Biostatistics Division Chair Search Committee, 2014-2015
- Member, College Graduate Studies Committee, 2006-2011
- Member, College PEP Admission Committee, 2008-2013
- Member, College Workload Policy Committee, 2012
- Leading member, Taskforce to establish Fudan-OSU Joint Biomedical Statistics Center, 2011-2012
- Member, College Undergraduate Major Feasibility Study Committee, 2008
- Member, College Diversity Committee, 2006-2007
- Member, College POA Task Force, 2007
- Member, College ad-hoc committee on CV standardization, 2005-2006

Division of Biostatistics

- Chair, Division Faculty Search Committee, 2017-2018, 2021
- Chair, Division Master Admission Committee, 2016-2022
- Chair, Division Qualifier II exam committee, 2011- 2014, 2016-2017
- Member, Division Master Admission Committee, 2022-present
- Member, Joint PhD Program Qualifier II exam committee, 2018
- Member, Division Senior Faculty Search Committee, 2011-2012

- Member, Division Junior Faculty Search Committee, 2009-2010
- Member, Division Senior Faculty Search Committee, 2007
- Member, Division Junior Faculty Search Committee, 2007
- Member, Joint Biostatistics Doctoral Program Committee, 2007-2014
- Member, Division Admission Committee, 2005-2006