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EDUCATION

Ph.D. in Economics, Michigan State University, East Lansing, MI	2003
M.S. in Statistics, Michigan State University, East Lansing, MI	2000
B.S. in Economics, Tianjin University, Tianjin, China	1997

APPOINTMENTS

Associate Chair for Research Department of Epidemiology and Biostatistics Michigan State University, East Lansing, MI	2022 –
Professor with tenure	2021 –

Department of Epidemiology and Biostatistics Michigan State University, East Lansing, MI	
Associate Director of the Biostatistics Program Department of Epidemiology and Biostatistics Michigan State University, East Lansing, MI	2019 – 2020
Associate Professor with tenure Department of Epidemiology and Biostatistics Michigan State University, East Lansing, MI	2015 – 2021
Assistant Professor Department of Epidemiology and Biostatistics Michigan State University, East Lansing, MI	2009 – 2015
Research Economist RTI International Research Triangle Park, NC	2007 – 2009
Visiting Assistant Professor Department of Economics Michigan State University, East Lansing, MI	2007 – 2007
Research Associate Department of Epidemiology Michigan State University, East Lansing, MI	2003 – 2007

RESEARCH GRANTS

PENDING

- Co-Investigator (PI: Chen H) 2022 – 2026
 Title: Statin use and dementia in the elderly – a trial emulation analysis
 Funding Source: National Institutes of Health (R21)
 Funding Requested: \$430,375

UNFUNDED

- Principal Investigator 2021 – 2026
 Title: Social determinants of adverse birth outcomes and infant mortality: a tale of two states
 Funding Source: National Institutes of Health (R01)
 Funding Requested: \$2,365,698
 Impact Score: 24. Percentile: 14.0%
- Co-Investigator (PI: Liu H) 2022 – 2027
 Title: Social ties and COVID-19 outcomes among older adults
 Funding Source: National Institutes of Health (R01)
 Funding Requested: \$2,025,410
- Co-Investigator (PI: Zhao D) 2022 – 2026
 Title: LEAP-HI: AI-empowered digital twins for biosafety through human-centric building design and operations
 Funding Source: National Science Foundation

Funding Requested: \$1,438,974

- Co-Investigator (PI: Giurgescu & Misra) 2021 – 2023
 Title: Social stressors and inflammation: a mixed methods approach to preterm birth (administrative supplement)
 Funding Source: National Institutes of Health
 Funding Requested: \$337,818

ACTIVE GRANT SUPPORT

- Site-PI (PI: Holtrop JS) 2023 – 2026
 Title: Implementing obesity treatment in primary care utilizing evidence-based structures
 Funding Source: Patient Centered Outcome Research Institute
 Funding Requested: \$430,375
- Co-Investigator (PI: Johnson J & Meghea C) 2020 – 2025
 Title: Meeting women where they are: multilevel intervention addressing racial disparities in maternal morbidity and mortality
 Funding Source: National Institutes of Health (R01MD016003)
 Award: \$3,944,350
- Co-Investigator (PI: Olomu A) 2020 – 2025
 Title: Improving diabetic patients' adherence to treatment and prevention of cardiovascular disease
 Funding Source: National Institutes of Health (R01HL149777)
 Award: \$3,891,122
- Co-Investigator (PI: Chen H) 2019 – 2024
 Title: Pesticides, olfaction, and neurodegeneration among U.S. farmers
 Funding Source: National Institutes of Health (R01ES029227)
 Award: \$6,411,933
- Co-Investigator (PI: Margerison CE) 2019 – 2024
 Title: Policy change and women's health
 Funding Source: National Institutes of Health (R01HD095951)
 Award: \$1,884,663
- Co-Investigator (PI: Liu H) 2019 – 2023
 Title: Marriage, cognitive trajectories and ADRD risk in late life
 Funding Source: National Institutes of Health (R01AG061118)
 Award: \$1,215,685

ACTIVE CONTRACT SUPPORT

- Principal Investigator 2021 – 2022
 Title: Review of social environmental determinants of adverse birth outcomes and methodology for transportability.
 Funding Source: Michigan State University Discretionary Funding Initiative
 Award: \$50,000
- Key Person (PI: MacCallum-Bridges CL) 2020 – 2022
 Title: The impact of the Affordable Care Act (ACA) on unintended pregnancy: combining epidemiologic and econometric methods
 Funding Source: National Institute of Child Health and Human Development (F31HD103404)

- Award: \$88,130
- Co-Investigator (PI: Misra D) 2017 – 2021
Title: Vaccine Evaluation
Funding Source: MDHHS (#E20224388-00)
Award: \$150,000
 - Co-Investigator (PI: Hanna-Attisha M) 2017 – 2021
Title: Flint lead exposure registry (FLExR)
Funding Source: Centers for Disease Control & Prevention (NUE2EH001370)
Award: \$14,400,001
 - Co-Investigator (PI: Oberst K) 2016 – 2021
Title: Flint water evaluation
Funding Source: Michigan Department of Health & Human Services (E20192891-00-AR)
Award: \$2,253,921
 - Co-Investigator (PI: Oberst K) 2014 – 2021
Title: Integrated care assessment
Funding Source: Michigan Department of Health & Human Services (E20191313-00R)
Award: \$844,530
 - Co-Investigator (PI: Roman LA) 2018 – 2025
Title: Pay for success program evaluation
Funding Source: Michigan Department of Health & Human Services (DY100080)
Award: \$663,840
 - Co-Investigator (PI: Leach R & Fawcett S) 2017 – 2022
Title: Spectrum Health – Michigan State University Alliance Corporation
Funding Source: Spectrum Health (RG100811)
Award: \$56,445
 - Co-Investigator (PI: Roman LA) 2014 – 2022
Title: Strong Beginnings (Healthy Start Initiative – eliminating racial/ethnic disparities).
Funding Source: Spectrum Health (RC106790)
Award: \$197,877

COMPLETED GRANT SUPPORT

- Site Principal Investigator (PI: Holtrop JS) 2016 – 2020
Title: Why is the use of the Medicare intensive behavioral therapy for obesity benefit so low?
finding what works to promote wider dissemination
Funding Source: Agency for Healthcare Research and Quality (R01HS024943)
Award at site: \$240,138
- Co-Investigator (PI: Kerver J) 2018 – 2020
Title: Food as medicine for older adults with chronic health conditions
Funding Source: Michigan Health Endowment Fund (RC108435)
Award: \$500,000
- Principal Investigator 2018 – 2020
Title: An evaluation of the BCBSM/BCN C.L.I.M.B. pilot program for opioid use disorder
Funding Source: Blue Cross Blue Shield of Michigan Foundation (RC109210)
Award: \$73,432

- Co-Investigator (PI: Luz C) 2016 – 2018
 Title: An integrated model for personal assistant research and training (IMPART)
 Funding Source: Michigan Health Endowment Fund (R-1608-140357)
 Award: \$500,000
- Co-Investigator (PI: Margerison CE) 2015 – 2017
 Title: Economic conditions during pregnancy and birth outcomes
 Funding Source: National Institutes of Health (R03HD081384)
 Award: \$148,371
- Site Principal Investigator (PI: Holtrop JS) 2014 – 2017
 Title: Maximizing care management effectiveness in primary care
 Funding Source: Agency for Healthcare Research and Quality (R18HS022690)
 Award at site: \$200,468
- Co-Investigator (Site PI: Barry H; PI: Holtrop JS) 2013 – 2014
 Title: Implementing sustainable diabetes prevention and self-management in primary care
 Funding Source: Agency for Healthcare Research and Quality (R18DK082377)
 Award at site: \$169,529
- Consultant (PI: Gureje O) 2012 – 2017
 Title: Partnership for mental health development in Sub-Saharan Africa
 Funding Source: National Institutes of Health (U19 MH098718)
 Award for the Partnership Core: \$539,679
- Co-Investigator (PI: Wyatt G) 2011 – 2016
 Title: Home-based symptom management via reflexology for advanced breast cancer patients
 Funding Source: National Institutes of Health (R01CA157459)
 Award: \$3,221,360
- Co-Investigator (PI: Roman LA) 2011 – 2016
 Title: Demonstration of a community system of care for Medicaid insured pregnant women
 Funding Source: Agency for Healthcare Research and Quality (R18 HS020208)
 Award: \$2,436,244
- Faculty Resource (PI: Paneth N) 2010 – 2014
 Title: Training program in perinatal epidemiology
 Funding Source: National Institutes of Health (T32HD046377)
 Award: \$2,233,897
- Co-Investigator (PI: Holtrop JS) 2010 – 2013
 Title: A comparison of provider versus health plan delivered care management in Michigan
 Funding Source: Agency for Healthcare Research and Quality (R18HS020108)
 Award: \$1,859,009
- Co-Investigator (PI: Malouin R) 2010 – 2013
 Title: Comparative effectiveness of primary care practice transformation by two insurers
 Funding Source: Agency for Healthcare Research and Quality (R18HS020046)
 Award: \$1,212,578
- Principal Investigator 2010 – 2013
 Title: Methodology for individualized comparative effectiveness research in mental health
 Funding Source: National Institutes of Health (RC4MH092737)
 Award: \$1,167,292
- Co-Investigator (PI: Gardiner JC) 2008 – 2011
 Title: Statistical innovations in health services research

Funding Source: Agency for Healthcare Research and Quality (R01HS014206)
Award: \$924,165

- Principal Investigator 2005 – 2007
Title: Mental health parity law and hospitalization for mental disorders
Funding Source: Michigan State University Intramural Research Grant Program
Award: \$50,000
- Research Associate (PI: Bradley CJ) 2004 – 2008
Title: In-depth examination of disparities in cancer outcomes
Funding Source: National Institutes of Health (R01CA101835)
Award: \$2,147,807
- Research Associate (PI: Gardiner JC). 2004 – 2007
Title: Use of regression models in cost-effectiveness analysis
Funding Source: Agency for Healthcare Research and Quality (R01HS014206)
Award: \$977,244
- Graduate Assistant (PI: Gardiner JC). 1997 – 2003
Title: Statistical inference for cost-effectiveness analysis
Funding Source: Agency for Healthcare Research and Quality (R01HS009514)
Funded: \$2,053,892

COMPLETED CONTRACT SUPPORT

- Principal Investigator 2014 – 2016
Title: MSU-Michigan Consumers for health care collaborative healthcare research fellowship
Funding Source: Michigan Consumers for Healthcare (RC103979)
Award: \$83,125
- Co-Investigator (PI: Oberst K) 2014 – 2015
Title: Assessment of cost containment & efficacy of services for Medicare/Medicaid eligible population in Michigan
Funding Source: Michigan Department of Health & Human Services (RC104264)
Award: \$134,007
- Research Associate (PI: Roman LA) 2004 – 2007
Title: Michigan families Medicaid project
Funding Source: Michigan Department of Community Health (RC069156)
Award: \$2,100,435
- Research Associate (PI: Gardiner JC) 2004 – 2006
Title: Bariatric surgery
Funding Source: Michigan Department of Community Health (RC069012)
Award: \$165,994

PUBLICATIONS

First author is the corresponding author unless otherwise noted with *

Joint first author is noted with †

Trainee is underlined

Peer-reviewed publication as first, senior, or corresponding author

PEER-REVIEWED JOURNAL ARTICLES

1. Indurkha A, Gardiner JC, & **Luo Z** (2001) The effect of outliers on confidence interval procedures for cost-effectiveness ratios. *Statistics in Medicine* 20(9–10): 1469–77.
2. Smith RC, Gardiner JC, Lyles JS, Johnson M, Rost KM, **Luo Z**, Lein C, Collins C, & Dwamena F (2002) Minor acute illness: a common but ignored problem in high utilizing patients—a preliminary research report. *Journal of Family Practice* 51: 24–9.
3. Rappley MD, Mullan PB, Wang J, Alvarez J, Enelli IU, **Luo Z**, & Gardiner JC (2002) Patterns of psychotropic medication use in very young children with attention deficit hyperactivity disorder. *Journal of Developmental & Behavioral Pediatrics* 23: 23–30.
4. Mickus MA, Wagenaar DB, Colenda CC, Gardiner JC, & **Luo Z** (2002) Developing effective bathing strategies for reducing problematic behavior for residents with dementia: The PRIDE approach. *Journal of Mental Health & Aging* 8(1): 37–43.
5. Gardiner JC, **Luo Z**, Bradley CJ, Polverejan E, Holmes-Rovner M, & Rovner D (2002) Longitudinal assessment of cost in health care interventions. *Health Services & Outcomes Research Methodology* 3: 149–68.
6. Rosenman KD, Sims A, **Luo Z**, & Gardiner JC (2003) Occurrence of lead-related symptoms below the current occupational safety and health act allowable blood lead levels. *Journal of Occupational and Environmental Medicine* 45: 546–55.
7. Bradley CJ, Neumark D, **Luo Z**, Bednarek H, & Schenk MJ (2005) Employment outcomes of men treated for prostate cancer. *Journal of the National Cancer Institute* 97: 958–65.
8. Bradley CJ, Neumark D, Oberst K, Brennan S, **Luo Z**, & Schenk MJ (2005) Combining registry, primary, and secondary data sources to identify the impact of cancer on labor market outcomes. *Medical Decision Making* 25(5): 534–47.
9. Rosenman KD, Kalush A, Reilly MJ, Gardiner JC, Reeves MJ, & **Luo Z** (2006) How much work-related injury and illness is missed by the current national surveillance system? *Journal of Occupational and Environmental Medicine* 48(4): 357–65.
10. **Luo Z**, Mu R, & Zhang X* (2006) Famine and overweight in China. *Review of Agricultural Economics* 28(3): 296–304.
11. Lucia VC, **Luo Z**, Gardiner JC, Paneth N, & Breslau N (2006) Reports of birthweight by adolescents and their mothers: comparing accuracy and identifying correlates. *Paediatric and Perinatal Epidemiology* 20: 520–7.
12. Gardiner JC, **Luo Z**, Liu L, & Bradley CJ (2006) A stochastic framework for estimation of summary measures in cost-effectiveness analysis. *Expert Review of Pharmacoeconomics & Outcomes Research* 6(3): 347–58.
13. Gardiner JC, **Luo Z**, Bradley CJ, Sirbu CM, & Given CW (2006) A dynamic model for estimating changes in health status and costs. *Statistics in Medicine* 25(21): 3648–67.
14. Bouknight RR, Bradley CJ, & **Luo Z** (2006) Correlates of return to work for breast cancer survivors. *Journal of Clinical Oncology* 24(3): 345–53.
15. **Luo Z**, Goddeeris J, Gardiner JC, & Smith RC (2007) Costs of an intervention for primary care patients with medically unexplained symptoms—a randomized controlled trial. *Psychiatric Services* 58(5): 1079–86. PMID: PMC2633637.
16. Bradley CJ, Neumark D, **Luo Z**, & Schenk M (2007) Employment and cancer: findings from a longitudinal study of breast and prostate cancer survivors. *Cancer Investigation* 25(1): 47–54.
17. Bradley CJ, Given CW, **Luo Z**, Roberts C, Copeland G, & Virnig BA (2007) Medicaid, Medicare, and state tumor registries: a linkage strategy. *Medical Decision Making* 27(4): 352–63.
18. Bradley CJ, Neumark D, **Luo Z**, & Bednarek H (2007) Employment-contingent health insurance, illness, and labor supply of women: evidence from married women with breast cancer. *Health Economics* 16(7): 719–37.
19. Bradley CJ, Given CW, **Luo Z**, Dahman BA, & Virnig B (2007) Diagnosis of advanced cancer among elderly Medicare and Medicaid patients. *Medical Care* 45(5): 410–9.
20. Reeves MJ, Gargano J, **Luo Z**, Mullard AJ, Jacobs BS, & Majid A (2008) Effect of pretreatment with statins on ischemic stroke outcomes. *Stroke* 39(6): 1779–85.

- * Accompanying comment: Tsuda. Statin and nitric oxide production against ischemic stroke. 39(11): e170.
- * Authors response. 39(11): e171.
21. **Luo Z**, Alvarado GF, Hatsukami DK, Johnson EO, Bierut L, & Breslau N (2008) Race differences in nicotine dependence in the Collaborative Genetic Study of Nicotine Dependence (COGEND). *Nicotine & Tobacco Research* 10(7): 1223–30.
 22. Bradley CJ, **Luo Z**, & Given CW (2008) Cancer incidence in elderly Medicare and dual eligible beneficiaries. *Health Services Research* 43(5): 1768–78.
 23. **Luo Z**, Yang N, Gardiner JC (2008) Estimation of mean response in sample selection models with endogenous variables. *Journal of Statistics & Applications* 3(2): 217–38.
 24. Gardiner JC, **Luo Z**, & Roman LA (2009) Fixed effects, random effects and GEE: what are the differences? *Statistics in Medicine* 28(2): 221–39.
 25. Smith RC, Gardiner JC, **Luo Z**, & Rost K (2009) Diagnostic accuracy of predicting somatization from patients' ICD-9 diagnoses. *Psychosomatic Medicine* 71(3): 366–71. PMID: PMC2669490.
 26. Smith RC, Gardiner JC, **Luo Z**, Schooley S, Lamerato L, & Rost K (2009) Primary care physicians treat somatization. *Journal of General Internal Medicine* 24(7): 829–32. PMID: PMC2695533.
 27. Cowell AJ, **Luo Z**, & Masuda YJ (2009) Psychiatric disorders and the labor market: an analysis by disorder profiles. *Journal of Mental Health Policy and Economics* 12(1): 3–17.
 28. Roman LA, Gardiner JC, Lindsay JL, Moore JS, **Luo Z**, Baer LJ, Goddeeris JH, Shoemaker AL, Barton LR, Fitzgerald HE, & Paneth N (2009) Alleviating perinatal depressive symptoms and stress: a nurse-community health worker randomized trial. *Archive of Women's Mental Health* 12(6): 379–91.
 29. **Luo Z**, Bradley CJ, Dahman BA, & Gardiner JC (2009) Colon cancer treatment costs for Medicare and dually eligible beneficiaries. *Health Care Financing Review* 31(1): 35–50. PMID: PMC2832226.
 30. **Luo Z**, Gardiner JC, & Bradley CJ (2010) Applying propensity score methods in medical research: pitfalls and prospects. *Medical Care Research & Review* 67(5): 528–54. PMID: PMC3268514.
 31. **Luo Z**, Cowell AJ, Musuda YJ, Novak SP & Johnson EO (2010) Course of major depressive disorder and labor market outcome disruption over three to four years. *Journal of Mental Health Policy and Economics* 13(3): 135–49. PMID: PMC3292040.
 32. Troost JP, Rafferty AP, **Luo Z**, & Reeves MJ (2011) Temporal and regional trends in healthy lifestyle characteristics in the U.S, 1994–2007. *American Journal of Public Health*. 102(7): 1392–8. PMID: PMC3478033.
 33. **Luo Z** (2011) Identification of heterogeneity in treatment effect and comparative effectiveness research. *China Health Review* 2(3): 2–7. PMID: PMC4212262.
 34. Tang X, **Luo Z**, & Gardiner JC (2012) Hospital length of stay modeling by Coxian phase-type regression with heterogeneity. *Statistics in Medicine* 31(14): 1502–16.
 35. Breslau N, Troost JP, Bohnert K & **Luo Z** (2013) Influence of predispositions on posttraumatic stress disorder: does it vary by trauma severity? *Psychological Medicine* 43(2): 381–90. PMID: PMC3924550.
 36. Breslau N, Chen Q, & **Luo Z** (2013) The role of intelligence in posttraumatic stress disorder: does it vary by trauma severity? *PLOS ONE* 8(6): e65391. PMID: PMC3677906.
 37. Gardiner JC, **Luo Z**, Tang X, & Ramamoorthi RV (2014) Fitting heavy-tailed distributions to healthcare data by parametric and Bayesian methods. *Journal of Statistical Theory and Practice* 8(4): 619–52.
 38. **Luo Z**, Breslau J, Chen Q, Gardiner JC, & Breslau N (2014) Assessing interchangeability at cluster-levels with multiple-informant data. *Statistics in Medicine* 33(3): 361–75. PMID: PMC3947300.
* Featured Article
 39. Breslau N, Koenen KC, **Luo Z**, Agnew-Blais J, Swanson SA, Houts RM, Poulton R, & Moffitt TE (2014) Childhood maltreatment, juvenile disorders and adult posttraumatic stress disorder: a prospective investigation. *Psychological Medicine* 44(9): 1937–45. PMID: PMC4107193.

40. Wang P, Pan J, & **Luo Z** (2015) The impact of income inequality on individual happiness: evidence from China. *Social Indicators Research* 121(2): 413–35.
41. Annis AM, Holtrop JS, Tao M, Chang H-C, & **Luo Z** (2015) A comparison of health plan and provider-based targeting strategies for chronic disease care management. *The American Journal of Managed Care* 21(5): 344–51.
42. Holtrop JS, **Luo Z**, & Alexanders L (2015) Inadequate reimbursement for care management in primary care offices. *Journal of the American Board of Family Medicine* 28(2): 271–9.
43. Ojagbemi A, Bello T, **Luo Z**, & Gureje O (2017) Chronic conditions, new onset and persistent disability in the Ibadan study of ageing. *The Journal of Gerontology. Series A, Biological Science and Medical Sciences* 72(7): 997–1005.
44. Ojagbemi A, Bello T, **Luo Z**, & Gureje O (2017) Living conditions, low socioeconomic position, and mortality in the Ibadan study of ageing. *The Journal of Gerontology. Series B, Psychological Sciences and Social Sciences*, 72(4): 646–55.
45. Kelly AM, Smith B, **Luo Z**, Given B, Wehrwein T, Master I, & Farley J (2016) Discordance between patient and clinician report of multidrug resistant tuberculosis adverse drug reactions. *International Journal of Tuberculosis and Lung Disease* 20(4): 442–7.
46. **Luo Z**, Chen Q, Annis AM, Piatt G, Green LA, Tao M, & Holtrop JS (2016) A comparison of health plan- and provider-delivered chronic care management models on patient clinical outcomes. *Journal of General Internal Medicine* 31(7): 762–70. PMID: PMC4907946
47. Thompson MP, **Luo Z**, Gardiner JC, Burke JF, Nickles A, & Reeves MJ (2016) Quantifying selection bias in National Institute of Health stroke scale data documented in an acute stroke registry. *Circulation: Cardiovascular Quality and Outcomes* 9(3): 286–93.
48. Olomu A, Hart-Davidson W, **Luo Z**, Kelly-Blake K, & Holmes-Rovner M (2016) Implementing shared decision making in federally qualified health centers, a quasi-experimental design study: the office-guidelines applied to practice (Office-GAP) program. *BMC Health Services Research* 16(a): 334.
49. Chang H-C, Chung H, Tao M, **Luo Z**, & Holtrop JS (2016) A comparison of care management delivered models on the trajectories of medical costs among patients with chronic diseases: 4-year follow-up results. *Health Services and Outcomes Research Methodology* 16(4): 234–55.
50. Holtrop JS, Chen Q, Piatt G, **Luo Z**, Malouin J, Clark R, & Sauter C (2017) Patient participation in care management: are they aware? *The American Journal of Accountable Care* 5(3): e1–7.
51. Margerison-Zilko CE, Li Y, & **Luo Z** (2017) Economic conditions during pregnancy and adverse birth outcomes among singleton live births in the U.S., 1990-2013. *American Journal of Epidemiology* 186(10): 1131–9.
52. Holtrop JS, **Luo Z**, Piatt G, Green L, Chen Q, & Piette J (2017) Diabetic and obese patient clinical outcomes improve during a care model implementation in primary care. *Journal of Primary Care and Community Health* 8(4): 312–8. PMID: PMC5932733.
53. Wyatt G, Sikorskii A, Tesnjak I, Frambes D, Holmstrom A, **Luo Z**, Victorson D, & Tamkus D (2017) A randomized clinical trial of caregiver-delivered reflexology for symptom management during breast cancer treatment. *Journal of Pain Symptom Management* 54(5): 670–9.
54. Ojagbemi A, Abiona T, **Luo Z**, & Gureje O (2018) Symptomatic and functional recovery from major depressive disorder in the Ibadan Study of Ageing. *American Journal of Geriatric Psychiatry* 26(6): 657–66.
55. Zhou G, Holzman C, **Luo Z**, & Margerison-Zilko CE (2018) Maternal serum uric acid levels and blood pressure during pregnancy: a community-based cohort study. *European Journal of Obstetrics & Gynecology and Reproductive Biology* 222: 64–9.
56. Tian Y, Holzman C*, Slaughter-Acey J, Margerison-Zilko CE, **Luo Z**, & Todem D (2018) Maternal socioeconomic mobility and preterm delivery: a latent class analysis. *Maternal Child Health Journal* 22(11): 1647–58.
57. Zheng W, **Luo Z***, & van der Laan MJ (2018) Marginal structural models with counterfactual effect modifiers. *The International Journal of Biostatistics* 14(1): article 1. PMID: PMC6682415.

58. Li Y, Holzman C, **Luo Z**, Liu H, & Margerison CE (2018) Paternal race/ethnicity and risk of adverse birth outcomes in the United States, 1989–2013. *AIMS Public Health* 5(3): 312–23.
59. Thompson MP, **Luo Z**, Gardiner JC, Burke JF, Nickles A, & Reeves MJ (2018) Impact of missing stroke severity data on the accuracy of hospital ischemic stroke mortality profiling. *Circulation: Cardiovascular Quality Outcomes* 11(10): e004951. PMID: 30354572.
60. Margerison CE, Li Y, & **Luo Z** (2019) Economic conditions during pregnancy and preterm birth: a maternal fixed-effects analysis. *Paediatric and Perinatal Epidemiology* 33: 154–61. PMID: 30675915.
61. Achtyes E, Ben-Zeev D, **Luo Z**, Mayle H, Dayton R, Burke B, Rotondi A, Gottlieb J, Brunette M, Mueser K, Gingerich S, Meyer-Kalos P, Schooler N, Marcy P, Robinson D, & Kane J (2019) Off-hours use of a smartphone application in patients with schizophrenia spectrum disorders following hospital discharge. *Schizophrenia Research* 206: 200–8. PMID: 30551981.
62. **Luo Z**, Wang L, Sikorskii A, & Wyatt G (2019) Healthcare service utilization and work-related productivity in reflexology intervention for advanced breast cancer women. *Supportive Care in Cancer* 27(8): 2837–47. PMID: PMC6570585.
63. Khan NNS, Kelly-Blake K, **Luo Z**, & Olomu A (2019) Sex differences in statin prescribing in diabetic and heart disease patients in FQHCs: a comparison of the ATP III and 2013 ACC/AHA cholesterol guidelines. *Health Services Research & Managerial Epidemiology*. 6:1–8.
64. Kamp K, West P, Holmstrom A, **Luo Z**, Wyatt G, & Given B (2019) Systematic review of social support on psychological symptoms and self-management behaviors among adults with inflammatory bowel disease. *Journal of Nursing Scholarship* 51(4): 380–9.
65. Kamp K, **Luo Z**, Holmstrom A, Given B, & Wyatt G (2019) Self-management through social support among emerging adults with inflammatory bowel diseases. *Nursing Research* 68(4): 285–95. PMID: PMC6608597.
66. Liu B†, **Luo Z**†, Pinto JM, Shiroma EJ, Tranah G, Wirdefeldt K, Fang F, Harris T, & Chen H* (2019) Relationship between poor olfaction and mortality among community-dwelling older adults: a cohort study. *Annals of Internal Medicine* 170(10): 673–81. PMID: PMC7673250.
 * Accompanying editorial: Kamath V & Leff B. Mortality risk in older adults: what the nose knows. 170(10): 722–3.
 * Accompanying comment: Fuller-Thomson ER & Fuller-Thomson EG. Relationship between poor olfaction and mortality. 171(7): 526.
 * Authors response. 171(7): 526.
67. Kulkarni MT, Holzman C, Wasilevich E, **Luo Z**, Scheid J, & Allswede M (2019) Pregnancy hypertension and its associations with pre-pregnancy depression, anxiety, antidepressants, and anxiolytics. *Pregnancy Hypertension: An International Journal of Women's Cardiovascular Health* 16: 67–74. PMID: 31056161.
68. Zhou G, Holzman C*, **Luo Z**, & Margerison CE (2020) Maternal serum uric acid levels in pregnancy and fetal growth. *The Journal of Maternal Fetal & Neonatal Medicine* 33(1): 24–32. PMID: 29961396.
69. Kamp K, Holmstrom A, **Luo Z**, Wyatt G, & Given B (2020) Factors influencing received social support among emerging adults with inflammatory bowel disease: a cross-sectional study. *Gastroenterology Nursing* 43(6): 429–39. PMID: PMC7708409.
70. Purdy F, **Luo Z**, Gardiner JC, Pinto JM, Shiroma EJ, Simonsick EM, Harris TB, & Chen H (2020) Olfaction and changes in body composition in a large cohort of older U.S. adults. *Journal of Gerontology. Series A: Biological Sciences and Medical Sciences*. 75(12): 2434–40. PMID: PMC7662158.
71. Cao Z, **Luo Z**, Huang X, Pinto JM, Simonsick EM, Shiroma EJ, & Chen H (2020) Self-reported versus objectively assessed olfaction and Parkinson disease risk. *Journal of Parkinson's Disease*. 10(4): 1789–95. PMID: 32925101.
72. An J, **Luo Z**, An W, Cao D, Ma J, & Liu Z (2020) Identification of spliceosome components pivotal to breast cancer survival. *RNA Biology*. 18(6): 833–42. PMID: PMC8081035.

73. **Luo Z**, Gritz M, Connelly L, Dolor R, Phimphasone-Brady N, & Holtrop JS (2021) A survey of primary care practices on their use of the intensive behavioral therapy for obese Medicare patients. *Journal of General Internal Medicine*. 36(9): 2700–8. PMID: PMC8390720.
74. Simmonds KP, **Luo Z**, & Reeves MJ (2021) Race/ethnicity and stroke subtype differences in post-stroke functional recovery after acute rehabilitation. *Archives of Physical Medicine and Rehabilitation*. 102(8): 1473–81. PMID: 33684363.
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97. Cao Z, Yang A, White AJ, Purdy F, Li C, **Luo Z**, D'Aloisio AA, Suarez L, Deming-Halverson S, Pinto JM, Chen J-C, Werder EJ, Kaufman JD, Sandler DP, & Chen H (2023) Ambient air pollutants and olfaction among women 50–79 years of age from the Sister Study. *Environmental Health Perspectives*. 131(8):087012.
98. Meghea CI, Raffo JE, Yu X, Meng R, **Luo Z**, Vander Meulen P, Lloyd CS & Roman LA (2023) Community health worker home visiting, birth outcomes, maternal care, and disparities among birthing individuals with Medicaid insurance. *JAMA Pediatrics*. 177(9):939–46. PMID: PMC10366943.
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PEER-REVIEWED ABSTRACTS

1. Rappley M D, **Luo Z**, Wang J, & Gardiner JC (2000) The impact of comorbid mental health conditions on health care for children with ADHD. *Journal of Developmental and Behavioral Pediatrics* 21(5): 388.
2. Rappley MD, **Luo Z**, Eneli IU, Brady JE, & Gardiner JC (2002) Stimulants prescribed without a diagnosis of attention deficit hyperactivity disorder. *Pediatric Research* 51(4S): 18A.
3. Rappley MD, **Luo Z**, Brady J, & Gardiner JC (2003) Variation in the use of sleep medication for children. *Journal of Developmental and Behavioral Pediatrics* 23: 394.

4. Bouknight RR, Bradley CJ, Gardiner JC, & **Luo Z** (2004) Return to work for breast cancer survivors. *Journal of General Internal Medicine* 19(S1): 206.
5. Given CW, Bradley CJ, & **Luo Z** (2005) Are breast cancer patients insured through Medicare vs. Medicaid and Medicare diagnosed later and received different treatment? *Gerontologist* 45(S12): 171.
6. Gardiner JC, & **Luo Z** (2007) Administrative database screening for somatization. *Journal of General Internal Medicine* 22(S1): 43.
7. Smith RC, Gardiner JC, & **Luo Z** (2007) Primary care physicians treat somatization. *Journal of General Internal Medicine* 22(S1): 56.
8. Reeves MJ, Gargano J, Mullard A, Majid A, & **Luo Z** (2007) Effect of pre-existing statin use on in-hospital mortality and functional status at discharge in stroke patients: A propensity-based analysis. *Circulation* 115(21): E581–2.
9. **Luo Z**, Chen Q, Breslau N, & Bickel WK (2011) Escaping the tyranny of small decisions and implications for treatment entry. *Journal of Mental Health Policy and Economics* 14(S1): S18.
10. Holtrop JS, Green LA, Emeott AA, **Luo Z**, Chen Q, Tao M, & Chang R (2014) Practice-based care management outperforms health plan disease management in targeting and engagement. *International Journal of Behavioral Medicine* 21(S1): S143.
11. Olomu AB, Khan NNS, Kelly-Blake K, Kavuturu S, & **Luo Z** (2016) Are there gender-based differences in prescribing statins in federally qualified health care centers? evidence from office-guidelines applied to practice (office-gap). *Journal of General Internal Medicine* 31(S2): S124–5.
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13. Wyatt G, Sikorskii A, Tesnjak I, Frambes D, Holmstrom A, & **Luo Z** (2016) Psychosocial care: caregiver involvement in symptom management. *Psycho-Oncology* 25(S3): S103.
14. Wyatt G, Sikorskii A, Tesnjak I, Frambes D, Holmstrom A, & **Luo Z** (2017) Psychosocial outcomes of a caregiver-delivered intervention. *Psycho-Oncology* 26(S1): S1.
15. Holtrop JS, **Luo Z**, Li H, Gritz M, Dolor R, Fitzpatrick L, Connelly L, Phimphasone-Brady P (2018) How us primary care practices are using the Medicare intensive behavioral therapy for obesity payment code. *International Journal of Behavioral Medicine* 25(S1): S48.
16. Holtrop JS, Phimphasone-Brady P, **Luo Z**, Gritz M, Dolor R, Li H, Fitzpatrick L, Connelly L, Shah N (2018) Opportunities for obesity management in us primary care practices. *Annals of Behavioral Medicine* 52(S1): S749.
17. Roman LA, **Luo Z**, Meghea CI, Vander Meulen P, Fawcett K, Leach R (2018) Preterm birth among African American women in a federal Healthy Start Program: Informing Pay-for-Success. *Obstetrics and Gynecology* 131(S1): S112.
18. Margerison-Zilko CE, Li Y, **Luo Z** (2018) Economic Conditions During Pregnancy and Adverse Birth Outcomes Among Singleton Live Births in the United States, 1990–2013. *Obstetrical & Gynecological Survey* 73(4) 191–2.
19. Abujarad F, Swierenga SJ, Luz C, Hanson K, Curtin C, **Luo Z**, & Swanson-Aprill L (2019) Improving the personal care assistant workforce through training, data, and technology. *Innovation in Aging* 3(S1): 667.
20. Roman LA, Strutz KL, **Luo Z**, Johnson M, Vander Meulen P, Meghea CI (2020) High-risk pregnancies and health conditions in Medicaid-insured participants in a federal Healthy Start program [13F]. *Obstetrics & Gynecology* 135: S63–4.
21. Yuan Y, Luo Z, Li C, Simonsick E, Shironma E, & Chen H (2020) Olfaction and physical function in older adults: findings from Health ABC. *Innovations in Aging*, 4(S1):530–1.
22. Achtyes ED, Kempema K, Luo Z, Thakkar KN, Adams C, D’Mello D, Stilwell K, Tran D, Marcy P, Mueser K, Schooler NR, Robinson DG, & Kane JM (2021) Implementation of NAVIGATE Coordinated Specialty Care for First Episode Psychosis: the Michigan Experience. *CNS Spectrums* 26(2): 177–8.

BOOK CHAPTERS

1. Gardiner JC, Indurkha A, & **Luo Z** (2002) The performance of estimation procedures for cost-effectiveness ratios. In Balakrishnan N (Ed.) *Advances on methodological and applied aspects of probability and statistics* (pp. 547–59). New York: Taylor & Francis.
2. Gardiner JC, & **Luo Z** (2007) Survival analysis. In Boslaugh SE (Ed.) *Encyclopedia of Epidemiology*. Sage Publications, Inc.
3. Gardiner JC, Liu L, & **Luo Z** (2008) Analyzing multiple failure time data using SAS software. In Khattree R & Naik DN (Ed.) *Computational Methods in Biomedical Research* (pp. 153–88). Boca Raton, FL: Chapman & Hall/CRC Taylor & Francis Group.
4. Gardiner JC, Liu L, & **Luo Z** (2008) Estimating medical costs from a transition model. In Balakrishnan N, Pena E, & Silvapulle M (Ed.) *Beyond Parametrics in Interdisciplinary Research: Festschrift in honor of Professor Pranab K. Sen*. (pp. 350–63). Beachwood, OH: Institute of Mathematical Statistics.
5. **Luo Z**, Mu R & Zhang X (2010) Famine and overweight in China. In Liu GG, Zhang S, & Zhang Z (Ed.) *Investing in Human Capital for Economic Development in China* (pp. 231–40). Hackensak, NJ: World Scientific Publishing Co. Pte. Ltd. 5 Toh Tuck Link, Singapore.
6. Tang X, **Luo Z**, & Gardiner JC (2016) A bivariate random-effects copula model for length of stay and cost. In Lin J, Wang B, Hu X, Chen K, & Liu R (Ed.) *Statistical Applications from Clinical Trials and Personalized Medicine to Finance and Business Analytics, Selected Papers from the 2015 ICSA/Graybill Applied Statistics Symposium, Colorado State University, Fort Collins* (pp. 339–52). Springer International Publishing AG. Switzerland.

REPORTS, WHITE PAPERS AND PROCEEDINGS

1. **Luo Z**, Luseno WK, & Landwehr JG (2008) *Cost-effectiveness of women's health CoOp in South Africa: a summary of cost estimation*. Prepared for the BHCJ Division, RTI International.
2. **Luo Z**, Batts KR, Cowell AJ, & Hinde JM (2008) *State profiles of characteristics of adults with depressive symptoms, or lifetime diagnosis of a depressive or anxiety disorder*. Prepared for the Substance Abuse and Mental Health Services Administration, RTI International.
3. **Luo Z**, Bray JW, & Gardiner JC (2008). *Using stochastic frontier models to estimate treatment heterogeneity and inefficiency*. JSM Proceedings, 460–7.
4. **Luo Z**, Bray JW, & Gardiner JC (2009) *Individual heterogeneity and individual inefficiency*. JSM Proceedings, 5127–38.
5. **Luo Z**, Bray JW, Karuntzos GT, & Shadle J (2009) *Monte Carlo evidence of an evaluation strategy of diverse programs with small group sizes*. JSM Proceedings, 1870–9.
6. Roman LA, **Luo Z**, Strutz KL, Raffo JE, Meng R, Meghea CI (2019) *Strong Beginnings Partners for Success: cohort I preterm birth analysis—Evaluator's Report*. Prepared for the Partners for Success Executive Board.

PRESENTATIONS**AT NATIONAL/INTERNATIONAL CONFERENCES**ORAL (PRESENTER: Luo Z)

1. **Luo Z** (2004) *Socioeconomic determinants of body mass index of adult Chinese in the 1990s*. The Conference on Chinese Healthy Aging and Socioeconomics: International Perspective. Duke University, Durham, NC.
2. **Luo Z** (2004) *Average treatment effects and propensity score methods*. The 3rd North American Stata Users Group Meeting. Boston, MA.

3. **Luo Z**, Gardiner JC, Bradley CJ, & Given CW (2005) *Do propensity score methods overcome bias in estimating average treatment effects in observational studies?* The Society for Medical Decision Making Annual Meeting. San Francisco, CA.
4. **Luo Z** (2006) *Diet, body mass index, physical activity and the education connection among adults in China.* The Chinese Economists Society Annual Meeting. Shanghai, China.
5. **Luo Z**, Mu R, & Zhang X (2006) *The long-term health impact of Chinese great famine.* The Chinese Economists Society Annual Meeting. Shanghai, China.
6. **Luo Z** (2006) *Diet, body mass index, physical activity and the education connection among adults in China.* The Population Association of America Annual Meeting. Detroit, MI.
7. **Luo Z**, Bradley CJ, Gardiner JC, & Dahman B (2008) *Disparity in one-year survival, treatment and cost between Medicare and dually eligible beneficiaries with colon cancer.* The Biennial American Society of Health Economists Meeting. Durham, NC.
8. **Luo Z**, Bray JW, Cowell AJ, & Gardiner JC (2008) *A stochastic frontier model for cost-effectiveness analysis with clustered data.* The Joint Statistical Meetings. Denver, CO.
9. **Luo Z**, Bray JW, & Gardiner JC (2009) *Treatment heterogeneity and individual inefficiency.* The Joint Statistical Meetings. Washington DC.
10. **Luo Z**, Cowell AJ, Musuda YJ, Novak SP, & Johnson EO (2010) *Course of major depressive disorder and labor market outcome disruption over three to four years.* The Biennial American Society of Health Economists Meeting. Ithaca, NY.
11. **Luo Z**, Chen Q, Breslau N, & Bickel WK (2011) *Escaping the tyranny of small decisions.* The 10th Workshop on Costs and Assessment in Psychiatry Mental Health Policy and Economics. Venice, Italy.
12. **Luo Z**, Chen Q, Weiss C, & Gardiner JC (2012) *Individualized comparative effectiveness mental health research: estimating treatment effects accounting for patient preferences.* The Joint Statistical Meetings. San Diego, CA.
13. **Luo Z** & Gardiner JC (2013) *Heterogeneous treatment effects and decision making.* The Joint Statistical Meetings. Montréal, Canada.
14. Zheng W, **Luo Z**, van der Laan MJ (2014) *From causal roadmaps to hedging your bets in the adventures of comparative effectiveness research: an effect modification analysis of STAR*D.* The Eastern North American Region/International Biometric Society Annual Meeting. Baltimore, MD.
15. **Luo Z** (2015) *From LATE to ATE: comparison between local average treatment effect and treatment effect.* The Joint Statistical Meetings. Seattle, WA.

ORAL (PRESENTER: Others)

1. Gardiner JC, **Luo Z**, Sirbu CM, Bradley CJ, & Given CW (2004). *A multi-state stochastic model for assessing covariate effects on survival and cost.* The Society for Medical Decision Making Annual Meeting. Atlanta, GA.
2. **Luo Z**, Bradley CJ, & Neumark D (2005) *Married couples, cancer and spousal labor supply.* The International Health Economics Association Congress. Barcelona, Spain.
3. Gardiner JC, **Luo Z**, Sirbu CM, Bradley CJ, & Given CW (2005) *A dynamic model to assess covariate effects on cost and health outcomes.* The Eastern North American Region/International Biometric Society Annual Meeting. Austin, TX.
4. Bradley CJ, Neumark D, **Luo Z**, & Bednarek H (2006) *Employment-contingent health insurance, illness, and labor supply of women: evidence from married women with breast cancer.* The Biennial American Society for Health Economists Meeting. Madison, Wisconsin.
5. Bray JW, Aldridge A, **Luo Z**, Karuntzos G, Cluff L, Galvin DM, & Schlenger W (2007) *The cross-site evaluation of the young adults in the workplace initiative: an ex-post dismantling design.* The Addiction Health Services Conference. Washington DC.

6. Gardiner JC, **Luo Z**, Tang X, & Ramamoorthi RV (2012) *Fitting heavy-tailed distributions to health care utilization by parametric and Bayesian methods*. The Joint Statistical Meetings, San Diego, CA.
7. Tang X, **Luo Z**, & Gardiner JC (2013) *Bivariate copula random-effects model for loss and cost*. The Joint Statistical Meetings, Montréal, Canada.
8. Wyatt G, Sikorskii A, Tesnjak I, Frambes D, Holmstrom A, & **Luo Z** (2016) *Psychosocial care: caregiver involvement in symptom management*. The International Psycho Oncology Society Congress. Dublin, Ireland.
9. Wyatt G, Sikorskii A, Tesnjak I, Frambes D, Holmstrom A, & **Luo Z** (2017) *Caregiver involvement in advanced breast cancer symptom management*. Oncology Nursing Society 42nd Annual Congress. Denver, CO.
10. Achtyes E, Burke B, **Luo Z**, Ben-Zeev D, Mayle H, Rotondi A, Gottlieb J, Brunette M, Mueser K, Gingerich S, Meyer-Kalos P, Marcy P, Schooler N, Robinson D, & Kane J. (2017) *Use of a Smartphone intervention 'off-hours' among subpopulations of patients with schizophrenia spectrum disorders following hospital discharge*. The Royal College of Psychiatrists International Congress. Edinburgh, Scotland.
* One of only 40 selected for rapid-fire oral presentation.
11. Kamp K, **Luo Z**, & Given B (2018) *IBD and symptom frequency, severity, and interference*. The Council for The Advancement of Nursing Science Annual Meeting. Washington DC.
12. MacCallum-Bridges C, Kaestner R, Luo Z, Holzman C, Bruckner T, & Margerison C (2022) *The Affordable Care Act (ACA) dependent coverage provision & unintended pregnancy*. Society for Epidemiologic Research. Chicago, IL.

POSTER (PRESENTER: Luo Z)

1. **Luo Z**, Gardiner JC, & Rappley MD (2001) *Analyzing health care utilization with count regression models: an application to children in Michigan Medicaid*. The Eastern North American Region/International Biometric Society Annual Meeting. Charlotte, NC.
2. **Luo Z** (2003) *Adult health transition in China*. The Population Association of America Annual Meeting. Twin City, MN.
3. **Luo Z**, Oberst K, Yang N, & Gardiner JC (2006) *Cost of bariatric surgery in Michigan Medicaid population 2004–2005*. The Michigan Department of Community Health Research Progress Meeting. Lansing, MI.
4. Gardiner JC, & **Luo Z** (2007) *Estimation of the discrete response and censored regression models with endogenous covariates*. The Eastern North American Region/International Biometric Society annual meeting. Atlanta, GA.
5. **Luo Z**, Breslau N, & Bickel WK (2010) *Education, time discounting, depression, and implication for treatment seeking*. The Quality of Behavioral Healthcare: A Drive for Change through Research. Clearwater Beach, FL.

POSTER (PRESENTER: Others)

1. Bradley CJ, **Luo Z**, & Neumark D (2005) *Employment outcomes of men treated for prostate cancer*. The International Health Economics Association World Congress. Barcelona, Spain.
2. **Luo Z**, German FA, Hatsukami DK, Johnson EO, Bierut LJ, & Breslau N (2007) *Race differences in nicotine dependence in the COGEND study*. The Society for Research on Nicotine and Tobacco 13th annual meeting. Austin, TX.
3. Galvin DM, Karuntzos GT, Bray JW, Cluff LA, Schlenger W, Aldridge AP, **Luo Z**, Norling JF, Stiller JL, & Wilcox ZR (2008) *Cross-site evaluation of young adults in the workplace (YIW)*. The Substance Abuse and Mental Health Services Administration/Center for Substance Abuse Prevention Community Prevention Day. Washington, DC.

4. Cowell AJ, **Luo Z**, & Masuda YJ (2008) *Psychiatric disorders and the labor market: an analysis by disorder profiles*. The American Society of Health Economists. Durham, NC.
5. Galvin DM, Karuntzos GT, Bray JW, Cluff L, Schlenger W, Aldridge AP, **Luo Z**, Norling JF, Wilcox ZR, & Stiller JL (2008) *Young adults in the workplace (YIW): cross-site evaluation of workplace prevention programs*. The American Public Health Association Annual Meeting. San Diego, CA.
6. Margerison-Zilko CE, Li Y, & **Luo Z** (2016) *Economic downturns during pregnancy and adverse birth outcomes: US 1989-2013*. The Population Association of America Annual Meeting. Washington DC.
7. Olomu A, Khan NN, Kelly-Blake K, Kavutire S, & **Luo Z** (2016) *Are there gender-based differences in prescribing statins in federally qualified health care centers? Evidence from Office-Guidelines applied to practice (Office-GAP)*. The Society of General Internal Medicine Annual Meeting. Hollywood, FL.
8. Margerison-Zilko CE, Li Y, & **Luo Z** (2016) *Unemployment and preterm delivery during the Great Recession*. The Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting. Miami, FL.
9. Achtyes E, Ben-Zeev D, **Luo Z**, Mayle H, Dayton R, Burke B, Rotondi A, Gottlieb J, Brunette M, Mueser K, Gingerich S, Meyer-Kalos P, Marcy P, Schooler N, Robinson D, & Kane J (2017). *Off-hours use of a smartphone application in patients with schizophrenia spectrum disorders following hospital discharge*. The American Society of Clinical Psychopharmacology Annual Meeting. Miami, Florida
10. Holtrop JS, **Luo Z**, Li H, Gritz M, & Dolor R (2017) *Limited use of the Medicare intensive behavioral therapy for obesity payment code by primary care providers*. At the North American Primary Care Research Group Annual Meeting. Montréal, Canada.
11. Holtrop, J.S., **Luo, Z.**, Li, H., Gritz, M. Dolor, R., Fitzpatrick, L. Connelly, L. & Phimphasone-Brady, P (2018) *How U.S. primary care practices are using the Medicare intensive behavioral therapy for obesity payment code*. The North American Primary Care Research Group Annual Meeting. Montréal, Canada.
12. McArdle C, Copeland G, Grady S, **Luo Z**, Paneth N, & Margerison, CE (2018) *Maternal fixed effects and the association between changes in neighborhood deprivation and perinatal outcomes*. The Society for Pediatric and Perinatal Epidemiologic Research Annual Meeting. Baltimore, MD.
13. Strutz KL, **Luo Z**, Vander Meulen P, Raffo JE, & Roman LA (2018) *Lower prevalence of preterm birth among African-American participants in a federal Healthy Start program: a comparison of propensity score methods*. The Annual Meeting of the Society of Pediatric and Perinatal Epidemiologic Research Annual Meeting. Baltimore, MD.
14. Vander Meulen P, Raffo JE, Lloyd CS, Ludtke E, Gajewski M, Meghea CI, **Luo Z**, Strutz KL, Roman LA (2018) *Measuring success in a "Pay for Success" funding model: a Healthy Start program case*. The CityMatCH Leadership and MCH Epidemiology Conference. Portland, OR.
15. Roman LA, Raffo JR, **Luo Z**, Vander Meulen P, Henning S, Rechner S, Johnson M, Strutz KL (2018) *Early engagement of high-risk pregnant women in enhanced prenatal care: system of care strategies to address population health*. The CityMatCH Leadership and MCH Epidemiology Conference. Portland, OR.
16. Strutz KL, **Luo Z**, Raffo JE, Vander Meulen P, Johnson M, Roman LA (2018) *Determining county-level counterfactuals for evaluation of population health interventions: K-means cluster analysis*. The American Public Health Association Annual Meeting. San Diego, CA.
17. Roman LA, Strutz KL, Raffo JE, Ludtke E, Vander Meulen P, Johnson M, & **Luo Z** (2018) *Population health efforts to reach high risk Medicaid-insured women during prenatal and inter-conception periods: community-clinical linkages*. The Academy Health Annual Research Meeting, Seattle, WA.
18. Lutz C, Abujarad F, Swierenga S, **Luo Z**, & Hanson K (2018) *IMPART alliance: supporting personal care aides key to increasing accessibility, quality and cost-effectiveness of home care*. The Academy Health Annual Research Meeting. Seattle, WA.

19. Roman LA, **Luo Z**, Meghea CI, Vander Meulen P, Fawcett K, Leach R (2018) *Preterm birth among African American women in a federal Healthy Start Program: Informing Pay-for-Success*. The ACOG Annual Clinical and Scientific Meeting. Austin, TX.
20. Strutz KL, **Luo Z**, Vander Meulen P, Raffo JE, Roman LA (2018) *Healthy Start preterm birth findings and innovative funding opportunities*. The National Healthy Start Association Conference. Washington DC.
21. Adeponle AB, **Luo Z**, Bello T, Oladeji BD, Gureje O, & Zelkowitz P (2019) *Does the treatment of perinatal depression promote cognitive, language and motor development at 12-months in Nigerian infants?* The 25th Canadian Conference on Global Health. Ottawa, Canada.
22. Li H, Wang L, Gardiner JC, Brincks A, & **Luo Z** (2020) *Clarification and identification of causal estimands in clinical trials with two active treatment subject to noncompliance*. The Atlantic Causal Inference Conference (meeting canceled due to COVID-19).
23. Achtyes ED, Kempema K, **Luo Z**, Thakkar KN, Adams C, D’Mello D, Stilwell K, Tran D, Marcy P, Mueser K, Schooler NR, Robinson DG, & Kane JM (2020) *Implementation of NAVIGATE coordinated specialty care for first episode psychosis: the Michigan experience*. The NEI (Neuroscience Education Institute) Max Meeting (converted to 5-minute presentation at virtual meeting due to COVID-19).
24. Reeves MJ, Simmonds KP, Burke J, **Luo Z**, Kozlowski A, & Andary M (2020) *Emulating a clinical trial to compare acute stroke outcomes following rehabilitation care at inpatient rehabilitation versus skilled nursing facilities*. The European Stroke Conference (virtual meeting)
25. MacCallum-Bridges C, Luo Z, Kaestner R, Holzman C, Bruckner T, & Margerison C (2021) *The dynamic impact of the Affordable Care Act (ACA) on Unintended Pregnancy*. American Public Health Association Annual Meeting (virtual meeting)
26. Li H, Wang L, Brincks A, Gardiner JC, & **Luo Z** (2022) *Clarification and identification of causal estimands in clinical trials with two active treatments subject to treatment nonadherence*. American Causal Inference Conference. Berkeley, CA.
27. MacCallum-Bridges C, Kaestner R, Luo Z, Holzman C, Bruckner T, & Margerison C (2022) *The Affordable Care Act (ACA) dependent coverage provision & unintended pregnancy*. Society for Pediatric and Perinatal Epidemiologic Research. Chicago, IL.

INVITED TALKS

SEMINARS AND WORKSHOPS

1. Invited Discussant for Busch S, Barry C, Rosenheck R, & Frank R (2006) *Impact of FDA regulatory policy on Depression Treatment in Youth*. The 13th NIMH Biennial Research Conference on the Economics of Mental Health meeting. Bethesda, MD.
2. Panelist at the Westlake Forum on Healthy China 2020: Policy and Action (2009). Certificate of Outstanding Presentation and Contribution. Hangzhou, China.
3. Invited seminar at Michigan State University Bioethics Brown Bag (2009) *Psychological distress in Chinese elderly community dwellers* (joint work with Breslau N & Strauss J). East Lansing, MI.
4. Invited Discussant for Shen J & Wildman J (2011) *Using relative distributions to investigate the changes of happiness over time in England*. The International Health Economics Association World Congress. Toronto, Canada.
5. Invited seminar at Columbia University Department of Biostatistics (2012) *Utility of prognosis and propensity scores in identifying heterogeneous effects of second-step treatment to depressed outpatients: a STAR*D re-analysis* (joint work with Zheng W, Chen Q, Breslau N, & van der Laan MJ). New York, NY.
6. Invited two half-day workshop (2014) *Biostatistics for mental health for the Partnerships for Mental Health Development in Sub-Saharan Africa (PaM-D) Project*. University of Stellenbosch. Cape Town, South Africa.

7. Invited seminar at University of Colorado Department of Family Medicine (2014) *Economic evaluations alongside clinical studies*. Aurora, CO.
8. Invited seminar at MSU Public Health Program (2017) *A research agenda for an economist in Department of Epidemiology and Biostatistics*. Flint, MI.
9. Invited half-day workshop at Institute for Global Health (2018) *Public health, epidemiology, biostatistics: all for one and one for all*. East Lansing, MI.
10. Invited seminar at CSTAT (MSU) (2021) *Difference in differences methods in healthcare services research*. East Lansing, MI.
11. Invited seminar at Indiana University, Department of Epidemiology and Biostatistics (2021) *Instrumental variables: Analytic strategies for observational studies with unmeasured confounding*. Via zoom.
12. Seminar at Michigan State University, Department of Epidemiology and Biostatistics (January 2022) *Correlated random effects models for binary and zero-inflated outcomes: no single method dominates the others for a causal effect of interest in observational studies*.
13. Invited seminar at College of Human Medicine Department of Medicine Research Forum Series (February 2022) *When a randomized controlled trial is not feasible or randomization is broken, what to do? An estimation of the impact of a state-sponsored Medicaid prenatal home visiting program for black pregnant women*.

HONORS AND AWARDS

Dean's Award, Travel Grant, College of Social Sciences	2003
Graduate School Research and Travel Grant	2001
The Neville Fellowship	1998
Kechang Wang Fellowship for outstanding undergraduate students	1993 – 1997

PROFESSIONAL MEMBERSHIP

Member, Society for Causal Inference	2012 – Present
Member, AcademyHealth	2012 – Present
Member, American Statistical Association	2009 – Present
Member, American Economic Association	2003 – 2007

PROFESSIONAL SERVICES

Frontiers in Psychiatry editorial board Review Editor	2021 – Present
Program Chair, Mental Health Statistics Section, American Statistical Association	2015 – 2016
PLOS ONE Statistical Advisory Board	2014 – Present
The Journal of Health Economics and Outcomes Research editorial advisory board	2013 – Present
Program Chair-Elect, Mental Health Statistics Section, American Statistical Association	2014 – 2015

GRANT REVIEW

NIDA Special Emphasis Panel 08 ZDA1 LXF-C	2022
NIH/SREA-CSR Mail Reviewer	2022
Spectrum Health – MSU Alliance grants	2021 – 2022
NIH-CSR Special Emphasis Panel ZRG1 PSE-W(02)M	2019

Program Evaluation of NIH Peer Review Process: The Role of Anonymization	2019
British Medical Research Council Methodology Research Panel	2019
Blue Cross Blue Shield of Michigan Foundation Investigator Initiated Research	2019
NCI Special Emphasis Panel ZCA1 SRBX	2018
Blue Cross Blue Shield Investigator Initiated Research	2018
NIH-CSR Special Emphasis Panel ZMH1 ERB-X(04)S	2017
NIH-NRCS Study Section ad-hoc reviewer	2017
NIH-CSR Special Emphasis Panel ZMH1 ERB-M(05)	2016
NIMH-SERV Study Section ad-hoc reviewer	2016
United Nations Research Institute for Social Development award	2013
NIH CSR study section ZRG1 BBBP-J(58)	2010
City University of New York Internal Research Award Program	2009

EDITORIAL BOARD

Review Editor: Frontiers in Psychiatry (Schizophrenia)	2021
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JOURNAL REVIEW

(Alphabetical Order)

1. Advances in Therapy	18. Journal of Behavioral Health Services & Research
2. American Journal of Epidemiology	19. Journal of Biopharmaceutical Statistics
3. American Journal of Evaluation	20. Journal of Comparative Effectiveness Research
4. American Journal of Preventive Medicine	21. Journal of Epidemiology and Community Health
5. BMC Medical Research Methodology	22. Journal of General Internal Medicine
6. BMJ Open	23. Journal of Latin American Geography
7. China Economic Review	24. Journal of Statistics and Applications
8. Communications in Statistics – Theory and Methods	25. Medicaid and Medicare Research Review
9. Contemporary Economic Policy	26. Medical Care
10. Drug and Alcohol Disorders	27. Medical Care Research & Review
11. Economic Development and Cultural Change	28. Medical Decision Making
12. Economics and Human Biology	29. Nicotine & Tobacco Research
13. Healthcare: The Journal of Delivery Science and Innovation	30. PLOS ONE
14. Health Economics	31. Social Science and Medicine
15. Frontiers of Psychiatry	32. Statistics in Medicine
16. International Journal of Epidemiology	33. Value in Health
17. Journal of American Statistical Association	

TEACHING

UNDERGRADUATE COURSES

EPI 200 A Multidisciplinary Approach to Problems in Global Public Health & Epidemiology (Guest Lecturer)	2011
EC 201 Introductory Macroeconomics	1998

EC 498 Economics of Health Care	2007
EPI Intersession for Medical Students	2017

GRADUATE COURSES

STT 425 Introduction to Biostatistics (Co-Instructor)	2006
EPI 826 Research Methods in Epidemiology	2011 – 17, 2020 – 2021
EPI 826B Categorical Data Analysis (Co-Instructor)	2022
EPI 826B Categorical Data Analysis (Guest Lecturer)	2014
EPI 856 Statistical Consulting	2019 – 2021
EPI 858 Clinical Trials (Guest Lecturer)	2014 – 2020
EPI 880 Select Topics in Biostatistics	2014
EPI 890 Independent Study	2017 – 2019
EPI 920 Advanced Methods in Epidemiology and Applied Statistics (Guest Lecturer)	2015
EPI 950 Advanced Biostatistical Methods in Epidemiology	2010 – 2016
EPI 953 Analytical Strategies for Observational Studies	2013 – 2022
EPI 990 Independent Study	2017 – 2021

MENTORING

(*CHAIR, †CO-CHAIR)

PH.D. STUDENTS

Kathleen Oberst (Epidemiology)	2007	Kendra Kamp (Nursing)	2018
† Lin Liu (Statistics)	2007	Cristin McArdle (Epidemiology)	2019
Brian Fairman (Epidemiology)	2014	Diana Haggerty (Epidemiology)	2019
Ehren Schuttringer (Economics)	2014	Kent Simmons (Epidemiology)	2020
Anna Kelly (Nursing)	2015	*Hanyue Li (Epidemiology)	2021
Mike Thompson (Epidemiology)	2015	*Mounira Ozoor (Epidemiology)	E.2024
Carol Parker (Epidemiology)	2016	*Liang Wang (Biostatistics)	E.2024
Fei Jia (Economics)	2017	Colleen MacCallum (Epidemiology)	2022
Guoli Zhou (Epidemiology)	2017	Manuel M Catacora (Epidemiology)	2023
Yu Li (Epidemiology)	2017	†Zichun Cao (Biostatistics)	E.2023
Mallory Doan-Davis (Epidemiology)	2017	†Shufang Song (Biostatistics)	E.2025
Madhavi Thombre (Epidemiology)	2018	*Pengbo Wan (Biostatistics)	E.2026
Yan Tian (Epidemiology)	2018	*Hong Zhu (Biostatistics)	E.2027

M.S. STUDENTS

Victor Cruz (Epidemiology)	2012	Rachel Dodak (Epidemiology)	E.2022
*Patrick Karabon (Biostatistics)	2015	*Zhiheng Chen (Biostatistics)	2017
Qingmin Guo (Biostatistics)	2015	*Liang Wang (Biostatistics)	2018
Lei Zhao (Biostatistics)	2015	Alexa Sky Lupi (Biostatistics)	2018
Joshua Cerasuolo (Epidemiology)	2015	*Kyle Bennett (Biostatistics)	2019
Ashley Strong (Epidemiology)	2015	*Yanjie Li (Biostatistics)	2019
Samantha Bauer (Epidemiology)	2016	Wenjun Fu (Biostatistics)	2019
Dan Dutkiewicz (Epidemiology)	2016	Frank Purdy (Epidemiology)	2019
*Yiyun Lin (Biostatistics)	2016	Shuman Zhang (Biostatistics)	2020
Jung-Eun Lee (Biostatistics)	2016	*Mike Bridges (Biostatistics)	2020
Evan Withrow (Epidemiology)	2017	*Xinchun Zhang (Biostatistics)	2020
Taylor Seaton (Epidemiology)	2017	Shufang Song (Biostatistics)	2020

*Jing Chen (Biostatistics) 2022

POST-DOCTORAL SCHOLARS

†Nazeeba Siddika 2021 – 2022

SERVICES

AMERICAN STATISTICAL ASSOCIATION

Organizing Invited Sessions, Topic Contributed Sessions, and Round Tables 2015 – 2016
Reviewer for Student Paper Award 2015 – 2016

CHINA HEALTH POLICY AND MANAGEMENT SOCIETY

Reviewer for Best Paper Award 2017 – 2018

COLLEGE OF HUMAN MEDICINE

Research Committee 2019 – 2021
Mentorship Program 2019 – Present
Mentoring Drs. Julie Felton, Jinda Fan, Sachi Horibata
Search Committee for Department of Obstetrics and Gynecology faculty 2017 – 2018
Search Committee for Institute for Health Policy 2022
Henry Ford – MSU Health Science Building (Research Committee) 2022

DEPARTMENT OF EPIDEMIOLOGY AND BIostatISTICS

Reappointment, Promotion and Tenure Review Committee 2018 – Present
Curriculum Committee (EBCC) 2021 – Present
Epidemiology Comprehensive Exam Redesign Committee 2018 – 2019
Search Committee Neuropsychiatric Epidemiology 2018 – 2019
Search Committees for Biostatistics 2017, 2019, 2021
Graduate Students Recruitment Committee 2017 – 2020
Biostatistics MS-PhD Program Design Committee 2012 – 2016
Leadership Advisory Committee 2011 – 2019, 2021– Present
Curriculum Committee (EBCC) 2009 – 2014
Space Committee 2009 – 2010