Xianghua Luo, Ph.D.

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EDUCATION

1997 **B.S.**, Department of Urban and Environmental Sciences, Peking University, China

Minor, Department of Computer Science and Technology, Peking University, China

2000 **M.S.**, Department of Urban and Environmental Sciences, Peking University, China

2005 **Ph.D.**, Biostatistics, Johns Hopkins Bloomberg School of Public Health,
Baltimore, Maryland

PROFESSIONAL EXPERIENCE

Employment:

2000 – 2006	Teaching and Research Assistant, Johns Hopkins Bloomberg School of Public Health
2006 – present	Member, Masonic Cancer Center Biostatistics Core, University of Minnesota
2006 – 2013	**Assistant Professor**, non-tenure track
	Division of Biostatistics, School of Public Health, University of Minnesota
2013 – 2020	**Associate Professor**, non-tenure track
	Division of Biostatistics, School of Public Health, University of Minnesota
2020 – present	**Professor**, non-tenure track
	Division of Biostatistics and Health Data Science, School of Public Health,
	University of Minnesota

Professional Memberships:

2003 – present	American Statistical Association (ASA)
2007 – present	The International Biometric Society (IBS), Eastern North American Region (ENAR)

SERVICES

Services to Professional Organizations:

• ASA Service: ASA Twin Cities Chapter Representative to the Council of Chapters, 2018 – 2021.

Reviewer for External Funding Agencies:

• 2013-present, Ad hoc NIH grant reviewer (KEDD, HSQE and ZRG1 PSE-G, HDM-F, BST-T, BST-W, AARR-G, and HDM-Q)

• 7/1/2023 – present, Standing Member of the Health Services: Quality and Effectiveness Study Section (HSQE), Healthcare Delivery and Methodologies Integrated Review Group (HDM), Center for Scientific Review (CSR)

Journal Editorial Board/Associate Editor:

• BMC Medicine, 2015 – 2020.

• BMC Medical Research Methodology, 2016 – present.

Referee:
Statistical journals:
Biometrical Journal
Biometrics
Biometrika
Biostatistics
Communications in Statistics - Theory and Methods
Computational Statistics and Data Analysis
International Journal of Biostatistics
Journal of the American Statistical Association
Journal of the Royal Statistical Society
Lifetime Data Analysis
Scandinavian Journal of Statistics
Statistical Methods in Medical Research
Statistics in Biosciences
Statistics in Medicine
Scientific journals:
BMC journals
Cancer
Contemporary Clinical Trials Communications
Journal of Clinical Epidemiology
Journal of Clinical Oncology
PLOS ONE
Substance Abuse journal, etc.
Book proposals:
CRC Press

External Data & Safety Monitoring Board (DSMB):
• Studies of multiple myeloma involving autologous stem cell transplantation at the University of Iowa, 2013 - 2015.
• A novel approach to help women of reproductive age quit smoking, PI: A. Allen, University of Arizona, 2021 - present.

Institutional Committees at the University of Minnesota:
University of Minnesota
• Clinical and Translational Science Institute Education (CTSI-Ed) Program Annual Poster Session Judge, Clinical and Translational Science Institute, 2016, 2017, 2021, 2023.
• Undergraduate Research Symposium Judge, University of Minnesota, 2018.
Masonic Cancer Center
• Cancer Protocol Review Committee, Masonic Cancer Center, 2009 - 2016, 2018 - present.
• Data Safety and Monitoring Committee (DSMC), Masonic Cancer Center, 2016 - 2018.
• Research Fellow search committees, 2009, 2010, 2012, 2015, 2017, 2022.
School of Public Health
• Ad Hoc Committee on Contract Faculty Evaluation and Promotion, 2011 - 2012.
• Doctoral Dissertation Fellowship (DDF) committee, 2019 - 2020.
• SPH Associate Dean for Research search committee, 2020 - 2021.
• SPH Faculty Consultative Committee (FCC), at-large representative, 2020 - 2023.

• SPH Faculty Salary Equity Review Committee (SERC), Co-Chair, 2022 - present.
<u>Division of Biostatistics</u>
• Division of Biostatistics Exam Committee, 2011 - 2018.
• Division of Biostatistics Diversity, Climate and Inclusion Committee, Co-Chair, 2019 - 2022.
• Division of Biostatistics Faculty Position Search Committee, 2022 - 2023.
• Division of Biostatistics Admission Committee, 2018 - 2019, 2022 - 2023
• Division of Biostatistics MS Admission Committee, Chair, 2023 - present.

PUBLICATIONS

Method Papers (Luo is <u>the underlined first author</u>'s thesis advisor and senior author; * indicates that Luo is the corresponding author):

1. **Luo X***, Sorock GS. (2008). Analysis of recurrent event data under the case-crossover design with applications to elderly falls. *Statistics in Medicine*, 27:2890–2901.

2. **Luo X***, Wang M-C, Huang C-Y. (2010). A comparison of various rate functions of a recurrent event process in the presence of a terminal event. *Statistical Methods in Medical Research*, 19(2):167–182.

3. **Luo X**†,*, Huang C-Y†. (2011). Analysis of recurrent gap time data using the weighted risk set method and the modified within-cluster resampling method. *Statistics in Medicine*, 30(4):301–311. (†Equal contribution.)

4. Huang C-Y, **Luo X**, Follmann D. (2011). A model checking method for the proportional hazards model with recurrent gap time data. *Biostatistics*, 12(3):535–547.

5. <u>Liao W</u>, **Luo X***, Le C, Chu H, Epstein LH, Yu J, Ahluwalis JS, Thomas J. (2013). Analysis of cigarette purchase task instrument data with a left-censored mixed effects model. *Experimental and Clinical Psychopharmacology*, 21(2):124–132.

6. **Luo X***, Huang C-Y, Wang L. (2013). Quantile regression for recurrent gap time data. *Biometrics*, 69(2):375–385.

7. <u>Lee CH</u>, **Luo X***, Huang C-Y, DeFor T, Brunstein CG, Weisdorf DJ. (2016). Nonparametric methods for analyzing recurrent gap time data with application to infections after hematopoietic cell transplant. *Biometrics*, 72(2):535–545.

8. <u>Zhao T</u>, **Luo X***, Chu H, Le CT, Epstein LH, Thomas JL. (2016). A two-part mixed effects model for cigarette purchase task data. *Journal of the Experimental Analysis of Behavior*, 106(3):242–253.

9. <u>Lee CH</u>, Huang C-Y, Xu G, **Luo X**. (2018). Semiparametric regression model for alternating recurrent event data. *Statistics in Medicine*, 37(6):996-1008.

10. <u>Lyu T</u>, **Luo X***, Xu G, Huang C-Y. (2018). Induced smoothing for rank-based regression with recurrent gap time data. *Statistics in Medicine*, 37(7):1086–1100.

11. Ho YY, Vo TN, Chu H, LeSage M, **Luo X**, Virnig B, Le C. (2018). A Bayesian hierarchical model for demand curve analysis. *Statistical Methods in Medical Research*, 27(7):2038–2049.

12. Zhang Y, **Luo X***, Le CT, Ahluwalis JS, Thomas J. (2018). Analysis of self-report and bio-chemically verified tobacco abstinence outcomes with missing data: a sensitivity analysis using two-stage imputation. *BMC Medical Research Methodology*, 18:170.

13. Lee CH, Huang C-Y, DeFor T, Brunstein CG, Weisdorf DJ, **Luo X**. (2019). Semiparametric regression model for recurrent bacterial infections after hematopoietic stem cell transplantation. *Statistica Sinica*, 29(3):1489-1509.

14. Koopmeiners KS, Vock DM, Boatman JA, Carroll D, Colby SM, Donny EC, Hatsukami DK, **Luo X**, Tidey JW. (2019). The importance of estimating causal effects for evaluating a nicotine standard for cigarettes. *Nicotine & Tobacco Research*, 21(Suppl 1):S22-S25.

15. Cao W[†], Hecht SS, Murphy SE, Chu H, Benowitz NL, Donny EC, Hatsukami DK, **Luo X***. (2020). Analysis of multiple biomarkers using structural equation modeling. *Tobacco Regulatory Science*, 6(4):266–278. ([†]RA supervised by Luo).

16. Lyu T, **Luo X**, Huang C-Y, Sun Y. (2021). Additive rates model for recurrent event data with intermittently observed time-dependent covariates. *Statistical Methods in Medical Research*, 30(10):2239–2255.

17. Shi L, Hatsukami D, Benowitz N, Koopmeiners JS, Le CT, Donny EC, **Luo X***. (2021). A mixed effects model for analyzing area under the curve of longitudinally measured biomarkers with missing data. *Pharmaceutical Statistics*, 20(6):1249–1264.

18. Lyu T, **Luo X**, Sun Y. (2021). Additive-multiplicative rates model for recurrent event data with intermittently observed time-dependent covariates. *Journal of Data Science*, 19(4):615–633.

19. Castro-Pearson S[†], Le C, **Luo X**. (2022). Two-sample survival probability curves: A graphical approach for the analysis of time to event data in clinical trials. *Contemporary Clinical Trials*, 2022 April; 115:106707. ([†]Co-advised by Luo and Le.)

20. Castro-Pearson S, Sur A, Lee CH, Huang C-Y, **Luo X***. (2022). BivRec: an R package for the nonparametric and semiparametric analysis of bivariate alternating recurrent events. *BMC Medical Research Methodology*, 2022 Apr 3; 22:92.

21. Zhang S[†], Chu H, Bickel WK, Le CT, Smith TT, Thomas JL, Donny EC, Hatsukami DK, **Luo X***. (2022). A Bayesian hierarchical model for individual participant data meta-analysis of demand curves. *Statistics in Medicine*, 2022 May 30; 41(12):2276–2290. ([†]Co-advised by Luo and Chu.)

22. Eaton A, Sun Y, Neaton J, **Luo X**. (2022). Nonparametric estimation in an illness-death model with component-wise censoring. *Biometrics*, 2022 Sep; 78(3):1168–1180.

Collaborative/Applied Papers:

23. **Luo X**, Ni J. (2000). Advances in land use and land cover change. *Journal of Basic Science and Engineering* (in Chinese), 8:262-272.

24. **Luo X**, Ni J, Luo H. (2001). Multicollinearity problems and their treatment in statistical studies of land use change. *Journal of Basic Science and Engineering* (in Chinese), 9:297–306.

25. Wissow LS, Roter D, Larson SM, Wang M-C, Hwang W-T, Johnson R, **Luo X.** (2002). Mechanisms behind the failure of residents' longitudinal primary care to promote disclosure and discussion of psychosocial Issues. *Archives of Pediatrics and Adolescent Medicine*, 156:685–692.

26. Wissow LS, Larson SM, Roter D, Wang M-C, Hwang W-T, **Luo X**, Johnson R, Gielen A, Wilson MH, McDonald E. (2003). Longitudinal care improves disclosure of psychosocial information. *Archives of Pediatrics and Adolescent Medicine*, 157:419–424.

27. Chen L, Wang M, Villalta PW, **Luo X**, Feuer R, Jensen J, Hatsukami DK, Hecht SS. (2007). Quantitation of an acetaldehyde adduct in human leukocyte DNA and the effect of smoking cessation. *Chemical Research in Toxicology*, 20(1):108–113.

28. Hecht SS, Carmella SG, Murphy SE, Riley W, Le C, **Luo X**, Mooney ME, Hatsukami DK. (2007). Similar exposure of a tobacco-specific carcinogen in smokeless tobacco users and smokers. *Cancer Epidemiology Biomarkers & Prevention*, 16(8):1567–1572.

29. Wissow LS, Gadomski A, Roter D, Larson S, Brown J, Zachary C, Bartlett E, Horn I, **Luo X**, Wang M-C. (2008). Improving child and parent mental health in primary care: a cluster-randomized trial of communication skills training. *Pediatrics*, 121(2):266–275.

30. Dudek AZ, Mescher MF, Okazaki I, Math VT, **Luo X**, Curtsinger JM, Miller JS. (2008). Autologous large multivalent immunogen vaccine in patients with metastatic melanoma and renal cell carcinoma. *American Journal of Clinical Oncology*, 31(2):173–181.

31. Harker-Murray PD, Thomas AJ, Wagner JE, Weisdorf D, **Luo X**, DeFor TE, Verneris MR, Dusenbery KE, Macmillan ML, Tolar J, Baker KS, Orchard PJ. (2008). Allogeneic hematopoietic cell transplantation in children with relapsed acute lymphoblastic leukemia isolated to the central nervous system. *Biology of Blood and Marrow Transplantation*, 14(6):685–692.

32. Hecht SS, Carmella SG, Edmonds A, Murphy SE, Stepanov I, **Luo X**, Hatsukami DK. (2008). Exposure to nicotine and a tobacco-specific carcinogen increase with duration of use of smokeless tobacco. *Tobacco Control*, 17:128–131.

33. Grant T, McNeil M, **Luo X**. (2008). Absolute and relative value of human simulator features as perceived by medical undergraduates. *Simulation in Healthcare*, 3:133–137.

34. Hertsgaard L, Hanson K, Riley W, Hecht SS, Lindgren B, **Luo X**, Carmella SG, Riley W, Murphy S, Hatsukami DK. (2008). Exposure to a tobacco-specific lung carcinogen in adolescent versus adult smokers. *Cancer Epidemiology Biomarkers & Prevention*, 17(12):3337–3343.

35. An LC, Berg CJ, Klatt CM, Perry CL, Thomas JL, **Luo X**, Ehlinger E, Ahluwalia JS. (2009). Symptoms of cough and shortness of breath among occasional young adult smokers. *Nicotine & Tobacco Research*, 11(2):126–133.

36. Burke MJ, Trotz B, **Luo X**, Baker KS, Weisdorf DJ, Wagner JE, Verneris MR. (2009). Allo-hematopoietic cell transplantation for Ph chromosome-positive ALL: impact of imatinib on relapse and survival. *Bone Marrow Transplant*, 43(2):107–113.

37. Bachanova V, Brunstein CG, Burns LJ, Miller JS, **Luo X**, DeFor TE, Young JA, Weisdorf DJ, Tomblyn M. (2009). Fewer infections and lower infection-related mortality following non-myeloablative versus myeloablative conditioning for allotransplantation of patients with lymphoma. *Bone Marrow Transplant*, 43(3):237–244.

38. Burke MJ, Trotz B, **Luo X**, Weisdorf DJ, Baker KS, Wagner JE, Verneris MR. (2009). Imatinib use either pre or post-allogeneic hematopoietic cell transplantation (Allo-HCT) does not increase cardiac risks in chronic myelogenous leukemia (CML) patients. *Bone Marrow Transplant*, 44(3):169-174.

39. Sorock GS, Quigley PA, Rutledge MK, Taylor J, **Luo X**, Foulis P, Wang M-C, Varadhan R, Bellantoni M, Baker SP. (2009). Central nervous system medication changes and falls in nursing home residents. *Geriatric Nursing*, 30(5):334–340.

40. Thomas JL, An LC, **Luo X**, Scherber RM, Berg CJ, Golden D, Ehlinger EP, Murphy SE, Hecht SS, Ahluwalia JS. (2010). Abstinence and relapse rates following a college campus-based "Quit & Win" contest. *The Journal of American College Health*, 58(4):365–372.

41. Davydova J, Gavrikova T, Brown EJ, **Luo X**, Curiel DT, Vickers SM, Yamamoto M. (2010). In vivo bioimaging tracks conditionally replicative adenoviral replication and provides an early indication of viral antitumor efficacy. *Cancer Science*, 101(2):474–481.

42. Sperduto PW, Chao S, Sneed P, **Luo X**, Suh J, Roberge D, Bhatt A, Jensen A, Brown PD, Shih H, Kirkpatrick J, Schwer A, Gaspar LE, Fiveash J, Chiang V, Knisely J, Sperduto CM, Mehta M. (2010). Diagnosis-specific prognostic factors, indexes and treatment outcomes for patients with newly diagnosed brain metastases: a multi-institutional analysis of 4259 patients. *International Journal of Radiation Oncology, Biology, Physics*, 77(3):655–661.

43. Ebbert JO, Edmonds A, **Luo X**, Jensen J, Hatsukami DK. (2010). Smokeless tobacco reduction with the nicotine lozenge and behavioral intervention. *Nicotine & Tobacco Research*, 12(8):823–827.

44. Kassie F, Melkamu T, Dagne A, Upadhyaya P, **Luo X**, Hecht SS. (2010). Inhibition of lung carcinogenesis and critical cancer-related signaling pathways by N-acetyl-S- (N-2- phenethylthiocarbamoyl) -L-cysteine, indole-3-carbinol and myo-inositol, alone and in combination. *Carcinogenesis*, 31(9):1634–1641.

45. Dagne A, Melkamu T, Schutten M, Qian X, Upadhyaya P, **Luo X**, Kassie F. (2011). Enhanced inhibition of lung adenocarcinoma by combinatorial treatment with indole-3-carbinol and silibinin in A/J mice. *Carcinogenesis*, 32(4):561–567.

46. Mitra R, Lee J, Jo J, Milani M, McClintick JN, Edenberg HJ, Kesler KA, Rieger KM, Badve S, Cummings OW, Mohiuddin A, Thomas DG, **Luo X**, Juliar BE, Li L, Mesaros C, Blair IA, Srirangam A, Kratzke R, McDonald CJ, Kim J, Potter DA. (2011). Prediction of postoperative recurrence-free survival in non-small cell lung cancer by using an internationally validated gene expression model. *Clinical Cancer Research*, 17(9):2934–2946.

47. Mitra R, Guo Z, Milani M, Mesaros C, Rodriguez M, Nguyen J, **Luo X**, Clarke D, Lamba J, Schuetz E, Donner DB, Puli N, Falck JR, Capdevila J, Gupta K, Blair IA, Potter DA. (2011). CYP3A4 mediates growth of ER+ breast cancer cells, in part, by nuclear translocation of phospho-Stat3 through biosynthesis of ($\pm$)-14,15-EET. *Journal of Biological Chemistry*, 286(20):17543–17559.

48. Divani AA, Majidi S, **Luo X**, Souslian FG, Zhang J, Tummala R. (2011). The ABC's of accurate volumetric measurement of cerebral hematoma. *Stroke*, 42(6):1569–74.

49. Hirsch B, Oseth L, Cain M, Pulkrabek S, Lindgren B, **Luo X**, Clay M, Weisdorf D, McCullough J. (2011). Effects of granulocyte-colony stimulating factor (G-CSF) on chromosome instability in healthy peripheral blood stem cell donors. *Blood*, 118(9):2602–2608.

50. Foley B, Cooley S, Verneris MR, Curtsinger JM, **Luo X**, Waller EK, Weisdorf DJ, Miller JS. (2011). NK cell education after allogeneic transplantation: dissociation between recovery of cytokine producing and cytotoxic functions. *Blood*, 118(10):2784–92.

51. Lee HY, Lundquist M, Ju E, **Luo X**, Townsend A. (2011). Colorectal cancer screening disparities in Asian Americans and Pacific Islanders: which groups are the most vulnerable? *Ethnicity and Health*, 16(6):501–518.

52. Sperduto PW, Kased N, Roberge D, Xu Z, Shanley R, **Luo X**, Sneed PK, Chao ST, Weil RJ, Suh J, Bhatt A, Jensen AW, Brown PD, Shih HA, Kirkpatrick J, Gaspar LE, Fiveash JB, Chiang V, Knisely JPS, Sperduto CM, Lin N. Mehta M. (2012). Summary report on the graded prognostic assessment (GPA): an accurate and facile diagnosis-specific tool to estimate survival for patients with brain metastases. *Journal of Clinical Oncology*, 30(4):419–425.

53. Sperduto PW, Kased N, Roberge D, Xu Z, Shanley R, **Luo X**, Sneed PK, Chao ST, Weil RJ, Suh J, Bhatt A, Jensen AW, Brown PD, Shih HA, Kirkpatrick J, Gaspar LE, Fiveash JB, Chiang V, Knisely JPS, Sperduto CM, Mehta M. (2012). Effect of tumor subtype on survival and the graded prognostic assessment for patients with breast cancer and brain Metastases. *International Journal of Radiation Oncology, Biology, Physics*, 82(5):2111–2117.

54. Foley B, Cooley S, Verneris MR, Pitt M, Curtsinger J, **Luo X**, Lopez-Verg?s S, Lanier LL, Weisdorf D, Miller JS. (2012). Cytomegalovirus reactivation after allogeneic transplantation promotes a lasting increase in educated NKG2C+ natural killer cells with potent function. *Blood*, 119(11):2665–2674.

55. Schiller K, **Luo X**, Anderson A, Jensen J, Hatsukami DK. (2012). Comparing an immediate cessation versus reduction approach to smokeless tobacco cessation. *Nicotine & Tobacco Research*, 14(8):902–909.

56. Skubitz KM, Francis P, Skubitz APN, **Luo X**, Nilbert M. (2012). Gene expression identifies heterogeneity of metastatic propensity in high-grade soft tissue sarcomas. *Cancer*, 118(17):4235–4243.

57. Divani AA, **Luo X**, Brandy KR, Meyer RM, Joseph MS, Flaherty JD, Rao GHR, Datta YH. (2012). Oral versus vaginal combined hormonal contraceptives? effect on coagulation and inflammatory biomarkers among young adult women. *Clinical and Applied Thrombosis/Hemostasis*, 18(5):487–494.

58. Foley B, Cooley C, Verneris MR, Curtsinger J, **Luo X**, Waller EK, Anasetti C, Weisdorf D, Miller JS. (2012). Human cytomegalovirus (CMV)-induced memory-like NKG2C+ NK cells are transplantable and expand in vivo in response to recipient CMV antigen. *The Journal of Immunology*, 189(10):5082–5088.

59. Brandy KR, Meyer RM, **Luo X**, Rao GH, Divani AA. (2012). Evaluation of the coagulation profile among oral and vaginal combined hormonal contraceptive users using sonoclot coagulation analyzer. *Clinical and Applied Thrombosis/Hemostasis*, 18(6):576–581.

60. Bhatia PM, Chamberlain R, **Luo X**, Hartley EW, Divani AA. (2012). Elevated blood pressure causes larger hematoma in a rat model of intracerebral hemorrhage. *Translational Stroke Research*, 3(4):428–434. DOI: 10.1007/s12975-012-0199-0

61. Sperduto PW, Kased N, Roberge D, Chao ST, Shanley R, **Luo X**, Sneed PK, Suh J, Weil RJ, Jensen AW, Brown PD, Shih HA, Kirkpatrick J, Gaspar LE, Fiveash JB, Chiang V, Knisely JPS, Sperduto CM, Lin N, Mehta M. (2013). The effect of tumor subtype on the time from primary diagnosis to development of metastases and survival in women with breast cancer. *Journal of Neuro-Oncology*, 112(3):467–472.

62. Romee R, Foley B, Lenvik T, Wang Y, Zhang B, Ankarlo D, **Luo X**, Cooley S, Verneris MR, Walcheck B, Miller JS. (2013). NK cell CD16 surface expression and function is regulated by a disintergrin and metalloprotease-17 (ADAM17). *Blood*, 121(18):3599–3608.

63. Wiernik A, Foley B, Zhang B, Verneris MR, Warlick E, Gleason MK, Ross JA, **Luo X**, Weisdorf DJ, Walcheck B, Vallera DA, Miller JS. (2013). Targeting natural killer cells to acute myeloid leukemia in vitro with a CD16x33 bispecific killer cell engager and ADAM17 inhibition. *Clinical Cancer Research*, 19(14):3844–3855.

64. Thomas JL, Hecht SS, **Luo X**, Ming X, and Carmella SG. (2014). Thirdhand tobacco smoke: a tobacco-specific lung carcinogen on surfaces in smokers' homes. *Nicotine & Tobacco Research*, 16(1):26–32.

65. Felices M, Lenvik TR, Ankarlo DEM, Foley B, Curtsinger J, **Luo X**, Blazar BR, Anderson SK, Miller JS. (2014). Functional NK cell repertoires are maintained through IL-2Rα and FasL. *Journal of Immunology*, 192(8):3889–3897.

66. Pulvers K, Buchanan T, Romero DR, Basora B, **Luo X**, Ahluwalia JS. (2014). Classifying a smoker scale in adult daily and nondaily Smokers. *Nicotine & Tobacco Research*, 16(5):591–599.

67. Isaksson Vogel R, Hertsgaard LA, Dermody SS, **Luo X**, Moua L, Allen S, al'Absi M, Hatsukami DK. (2014). Sex differences in response to reduced nicotine content cigarettes. *Addictive Behaviors*, 39(7):1197–1204.

68. Skubitz KM, Skubitz APN, Xu WW, **Luo X**, Lagarde P, Coindre J-M, and Chibon F. (2014). Gene expression identifies heterogeneity of metastatic behavior among high-grade non-translocation associated soft tissue sarcomas. *Journal of Translational Medicine*, 12(1):176.

69. Sperduto PW, Shanley R, **Luo X**, Andrews D, Werner-Wasik M, Valicenti R, Bahary J-P, Souhami L, Won M, Mehta M. (2014). Secondary analysis of RTOG 9508, a phase III randomized trial of whole brain radiation therapy (WBRT) versus WBRT plus stereotactic radiosurgery (SRS) in patients with 1-3 brain metastases; post-stratified by the graded prognostic assessment (GPA). *International Journal of Radiation Oncology, Biology, Physics*, 90(3):526–531.

70. Pulvers K, Scheuermann TS, Emami A, Basora B, **Luo X**, Khariwala S, Ahluwalia JS. (2014). Reasons for smoking among tri-ethnic daily and nondaily smokers. *Nicotine & Tobacco Research*, 16(12):1567–1576.

71. Thomas JL, Bengtson JE, Ghidei W, Schreier M, Wang Q, **Luo X**, Lust K, Ahluwalia JS. (2015). Social contingencies and college quit and win contest: a qualitative inquiry. *Am J Health Behav.*, 39(2):232–241.

72. Divani AA, Hevesi M, Pulivarthi S, **Luo X**, Souslian F, Suarez JI, Bershad EM. (2015). Predictors of nosocomial pneumonia in intracerebral hemorrhage patients: a multi-center observational study. *Neurocritical Care*, 22(2):234–242.

73. Divani AA, **Luo X**, Datta YH, Duprez D, Hall JL, Panoskaltsis-Mortari A. (2015). Effect of oral and vaginal hormonal contraceptives on inflammatory markers. *Mediators of Inflammation*, vol. 2015, Article ID 379501, 8 pages. doi:10.1155/2015/379501.

74. Dickson EL, Isaksson-Vogel R, **Luo X**, Downs LS. (2015). Recent trends in type-specific HPV infection rates in the United States. *Epidemiology and Infection*, 143(5):1042–1047.

75. Thomas JL, Bengtson JE, Wang Q, **Luo X**, Marigi E, Ahluwalia JS. Abstinence rates among college cigarette smokers enrolled in a Quit and Win contest: the impact of concurrent hookah use. (2015). *Preventive Medicine*, 76:20–25.

76. Song JM, Qian X, Molla K, Teferi F, Upadhyaya P, O'Sullivan G, **Luo X**, Kassie F. (2015). Combinations of indole-3-carbinol and silibinin suppress inflammation-driven mouse lung tumorigenesis by modulating critical cell cycle regulators. *Carcinogenesis*, 36(6):666–675.

77. Davis ZB, Cooley SA, Cichocki F, Felices M, Wangen R, **Luo X**, DeFor TE, Bryceson YT, Diamond DJ, Brunstein C, Blazar BR, Wagner JE, Weisdorf DJ, Horowitz A, Guethlein LA, Parham P, Verneris MR, Miller JS. (2015). Adaptive NK cell and KIR-expressing T cell responses are induced by CMV and protect against CMV reactivation after allogeneic donor hematopoietic cell transplantation. *Biology of Blood and Marrow Transplantation*, 21(9):1653–1662.

78. Richards CM, Sharif F, Eischen S, Thomas J, Wang Q, Guo H, **Luo X**, Okuyemi K. (2015). Retention of homeless smokers in the Power to Quit study. *Nicotine & Tobacco Research*, 17(9):1104–1111.

79. Ojo-Fati O, John F, Thomas J, Joseph AM, Raymond N, Cooney NL, Pratt R, Rogers CR, Everson-Rose S, **Luo X**, Okuyemi KS. (2015). Integrating smoking cessation and alcohol use treatment in homeless populations: study protocol for a randomized controlled trial. *Trials*, 16(1):385.

80. Blaes AH, Rehman A, Vock DM, **Luo X**, Menge M, Yee D, Missov E, Duprez D. (2015). The utility of the highly sensitive cardiac troponin T in patients receiving anthracycline chemotherapy. *Vascular Health and Risk Management*, 11:591–594.

81. Khariwala SS, Scheuermann T, **Luo X**, Nollen NL, Pulvers K, Siddiqi K, Sherman S, Ahluwalia JS. (2015). Do health care providers differentiate between daily and nondaily smokers when counseling for smoking cessation? Analysis by race/ethnicity. *Journal of Family Medicine*, 2(6):1041.

82. Thomas JL, **Luo X**, Bengtson J, Wang Q, Ghidei W, Nyman J, Lust K, An L, Wetter D, Epstein L, Ahluwalia JS. (2016). Enhancing Quit and Win contests to improve cessation among college smokers: a randomized clinical trial. *Addiction*, 111(2):331–339.

83. Thomas JL, **Luo X**, Rangel M, Lust K, Ahluwalia JS, Bengtson J, An LC. (2016). "Quit & Win" contests among college students: predictors of long term smoking abstinence. *American Journal of Health Promotion*, 30(4):264–271.

84. Hatsukami DK, **Luo X**, Dick L, Kangkum M, Allen SS, Murphy SE, Hecht SS, Shields P, al'Absi M. (2017). Reduced nicotine content cigarettes and use of alternative nicotine products: exploratory trial. *Addiction*, 112(1):156–167.

85. Smith TT, Cassidy RN, Tidey JW, **Luo X**, Le CT, Hatsukami DK, Donny EC. (2017). Impact of smoking reduced nicotine content cigarettes on sensitivity to cigarette price: Further results from a multi-site clinical trial. *Addiction*, 112(2):349–359.

86. Ojo-Fati O, Joseph A, Ig-Izevbekhai J, Thomas J, Everson-Rose S, Pratt R, Raymond N, Cooney NL, **Luo X**, Okuyemi K. (2017). Practical issues regarding implementing a randomized clinical trial in a homeless population: strategies and lessons learned. *Trials*, 18(1):305.

87. Carlson S, Widome R, Fabian L, **Luo X**, Forster J. (2018). Barriers to quitting smoking among young adults: The role of socioeconomic status. *American Journal of Health Promotion*, 32(2):294–300.

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125. Rashidi A, Ebadi M, Rehman TU, Elhusseini H, Kazadi D, Halaweish H, Khan M, Hoeschen A, Cao Q, **Luo X**, Holtan SG, Weisdorf DJ, Khoruts A, Staley C. A randomized double-blind phase 2 trial of fecal microbiota transplantation versus placebo in allogeneic hematopoietic Cell transplantation and acute myeloid leukemia. *Journal of Clinical Oncology*, 2023 May 26; doi: 10.1200/JCO.22.02366. Online ahead of print.

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Other Publications:

- Huang C-Y, **Luo X**. (2008). Book review of "The Statistical Analysis of Recurrent Events (R. J. Cook and J. F. Lawless)". *Biometrics*, 64:987-8.

- Sperduto PW, Chao ST, Sneed PK, **Luo X**, Suh J, Roberge D, Bhatt A, Jensen AW, Brown PD, Shih H, Kirkpatrick J, Gaspar LE, Fiveash JB, Chiang V, Knisely J, Sperduto CM, Mehta MP. (2011). Reply to Drs. Mulvenna and Holt. *International Journal of Radiation Oncology Biology Physics*, 81(4):1194-5.

- Sperduto P, Kased NW, Roberge D, Xu Z, Shanley R, **Luo X**, Sneed P, Chao S, Weil R, Suh J, Bhatt A, Jensen A, Brown P, Shih H, Kirkpatrick J, Gaspar L, Fiveash J, Chiang V, Knisely J, Sperduto C, Lin N, Mehta M. (2012). Reply to M.C. Chamberlain et al. *Journal of Clinical Oncology*, 30:3316-17.

- Sperduto PW, Sneed PK, Roberge D, Shanley R, **Luo X**, Weil RJ, Suh J, Bhatt A, Jensen AW, Brown PD, Shih HA, Kirkpatrick J, Gaspar LE, Fiveash JB, Knisely JPS, Lin N, Mehta M. (2012). In regard to Yamamoto et al. *International Journal of Radiation Oncology Biology Physics*, 84(4):875-6.

SOFTWARE

- Castro-Pearson S, Sur A, Lee CH, Huang CY, **Luo X**. (2020). R Package BivRec: Bivariate Alternating Recurrent Event Data Analysis. Version 1.2.1. June 5, 2021. URL: https://cran.r-project.org/web/packages/BivRec/index.html.

PRESENTATIONS

Statistical Conferences (*indicates Luo was the presenting author; underlined authors were Luo's thesis advisees):

1. **Luo X***, Wang M-C. Semiparametric regression for recurrent event data with time-dependent covariates and informative censoring. *The International Biometric Society Eastern North American Region (ENAR) Spring Meeting*, Austin, TX, 2005 (Contributed talk).

2. **Luo X***, Wang M-C. Recurrent event models in the presence of a terminal event: comparison, inference and data analysis. *Joint Statistical Meetings (JSM)*, Minneapolis, MN, 2005 (Contributed talk).

3. **Luo X***, Huang C-Y, Sorock GS. Analysis of recurrent event data in case-crossover studies. *Joint Statistical Meetings (JSM)*, Salt Lake City, UT, 2007 (Contributed talk).

4. **Luo X***, Huang C-Y. Recurrence time data analysis using within-cluster resampling. *Joint Statistical Meetings (JSM)*, Washington DC, 2009 (Contributed talk).

5. <u>Yue B</u>, Chu H, Sperduto P, **Luo X***. Commonality analysis for survival data, with an application to data from breast cancer patients with newly diagnosed brain metastases. *Joint Statistical Meetings (JSM)*, Miami, FL, 2011 (Contributed talk).

6. **Luo X***, Huang C-Y, Wang L. Quantile regression for recurrent gap time data. *Joint Statistical Meetings (JSM)*, San Diego, CA, 2012 (Contributed poster).

7. **Luo X***, Huang C-Y, Wang L. Statistical methods for recurrent gap time data. *Joint Statistics Conference by the International Chinese Statistical Association (ICSA) and the International Society for Biopharmaceutical Statistics (ISBS)*, Bethesda, MD, 2013 (Invited talk).

8. <u>Lee CH</u>, **Luo X**, Huang C-Y, DeFor T. Nonparametric Estimation of Joint Distribution of Time from Umbilical Cord Blood Transplantation to First Infection and Gap Times Between Recurrent Infections. *The International Biometric Society Eastern North American Region (ENAR) Spring Meeting*, Baltimore, MD, 2014.

   - This paper won ENAR Distinguished Student Paper Award.

9. <u>Lee CH</u>, **Luo X***, Huang C-Y, DeFor T. Statistical methods for data of recurrent infections after hematopoietic cell transplantation. 2014 *ICSA/KISS Applied Statistics Symposium*, Portland, OR, June 15-18, 2014 (Invited talk).

10. <u>Lee CH</u>, **Luo X**, Huang C-Y. Modeling gap times between recurrent infections after hematopoietic cell transplant. *The International Biometric Society Eastern North American Region (ENAR) Spring Meeting*, Miami, FL, March 15-18, 2015 (Contributed talk).

11. **Luo X***, <u>Zhang Y</u>, Thomas J. Analysis of self-report and biochemically verified tobacco abstinence outcomes with missing data: a two-stage imputation approach. *Joint Statistical Meetings (JSM)*, Seattle, WA, August 8-13, 2015 (Contributed talk).

12. <u>Lee CH</u>, **Luo X**, Huang C-Y, DeFor TE, Brunstein CG, and Weisdorf DJ. Semiparametric regression model for recurrent bacterial infections after hematopoietic stem cell transplantation. (Poster). *The International Biometric Society Eastern North American Region (ENAR) Spring Meeting*, Austin, TX, March 6-9, 2016 (Contributed talk).

13. <u>Lyu T</u>, **Luo X**, Xu G, Huang C-Y. Induced smoothing and efficient variance estimation for the accelerated gap times model with recurrent events data. *Joint Statistical Meetings (JSM)*, Chicago, IL, July 30 - August 4, 2016 (Contributed talk).

14. <u>Lyu T</u>, **Luo X**, Xu G, Huang C-Y. Induced smoothing for rank-based regression with recurrent gap time Data. *Twin Cities ASA 2016 Fall Research Meeting*, Moundsview, MN, October 2, 2016 (Poster).

15. <u>Lyu T</u>, **Luo X**, Xu G, Huang C-Y. Induced smoothing for rank-based regression with recurrent gap time data. *The International Biometric Society Eastern North American Region (ENAR) Spring Meeting*, Washington, DC, March 12 - 15, 2017 (Contributed talk).

16. <u>Lee CH</u>, **Luo X**, Huang C-Y, Xu G. Semiparametric regression analysis for bivariate alternating recurrent event data. *Lifetime Data Science Conference*, Storrs, CT, May 25-27, 2017 (Invited talk).

17. **Luo X***. Induced smoothing for rank-based regression with recurrent gap time data. *International Chinese Statistics Association (ICSA) China Conference: with the Focus on Lifetime Data*, Jilin, China, July 2-5, 2017 (Invited talk).

18. <u>Lyu T</u>, **Luo X**, Huang C-Y. Additive rates model for recurrent event data with intermittently observed time-dependent covariates. *Joint Statistical Meetings (JSM)*, Baltimore, MD, July 31, 2017 (Contributed talk).

19. <u>Lyu T</u>, Yifei Sun, Huang C-Y, **Luo X**. Additive rates model for recurrent event data with infrequently observed time-dependent covariates. *The International Biometric Society Eastern North American Region (ENAR) Spring Meeting*, Atlanta, GA, March 25 - 28, 2018 (Contributed talk).

20. <u>Shi L</u>, Le CT, Hatsukami D, **Luo X**. Analysis of area under the curve for longitudinally measured biomarkers with missing data in a randomized trial studying the effect of nicotine reduction on biomarker exposure. ASA Twin Cities Chapter 2018 Spring Meeting, April 16, 2018 (won one of three selected student poster presentations).

21. **Luo X***, <u>Lyu T</u>, Sun Y, Huang C-Y. Time-dependent covariates in recurrent event models. *Joint Statistical Meetings (JSM)*, Vancouver, BC, Canada, July 28 - August 2, 2018 (Topic contributed talk).

22. <u>Eaton AA</u>, Sun Y, Neaton J, **Luo X**. Non-parametric estimation for event free survival with component-wise censoring. ASA Twin Cities Chapter 2019 Spring Meeting, April 17, 2019 (won 2nd place in student poster presentations).

23. **Luo X***, <u>Lyu T</u>, Sun Y, Huang C-Y. Time-dependent covariates in recurrent event models. *The Conference on Lifetime Data Science: Foundations and Frontiers*, Pittsburgh, PA, May 29-31, 2019 (Invited talk).

24. <u>Eaton AA</u>, **Luo X**, Neaton J, Sun Y. Nonparametric estimation for event-free survival with component-wise censoring. *Women in Statistics and Data Science Conference, American Statistical Association*, Bellevue, WA, Oct 3-5, 2019.

25. <u>Castro-Pearson S</u>, **Luo X**, Le C. Two-sample survival probability curves: a graphical approach for time-to-event data in clinical trials. *Joint Statistical Meetings (JSM)*, Aug 9, 2021 (Contributed talk).

26. <u>Castro-Pearson S</u>, **Luo X**, Le C. Two-sample survival probability curves: a graphical approach for time-to-event data in clinical trials. *ENAR*, Mar 27-30, 2022 (Contributed talk).

27. <u>Castro-Pearson S</u>, **Luo X**, Le C. Two-sample survival probability curves: a graphical approach for time-to-event data in clinical trials. *Society for Clinical Trials*, 2022 (Contributed talk).

    - This work won SCT ED&I Student Travel Award.

28. <u>Zhao H</u>, Chu H, Zhou S, Yu F, **Luo X**, Zhang R. Racial disparities in Alzheimer's disease and Alzheimer's disease-related dementias from the disease progression perspective. *10th IEEE International Conference on Healthcare Informatics*, Rochester, MN, June 11-14, 2022, pp. 550-552, doi: 10.1109/ICHI54592.2022.00107.

29. <u>Sonnenberger M</u>, **Luo X**, Murray T. A Bayesian win probability approach for clinical trials with survival outcomes. *2023 Joint Statistical Meetings*, Toronto, ON, Aug 8, 2023 (poster).

30. **Luo X***, <u>Zhang S</u>, Chu H. A Bayesian hierarchical model for individual participant data meta-analysis of demand curves. *2023 Joint Statistical Meetings*, Toronto, ON, Aug 6, 2023 (contributed talk).

31. <u>Sonnenberger M</u>, **Luo X**, Murray T. Bayesian win probability for implementing the estimand framework in clinical trials with a time-to-event outcome. ENAR 2024 (submitted).

32. <u>Zhang C</u>, Chu H, Paudel N, Carroll DM, Stepanov I, Yershova K, Koopmeiners JS, Donny EC, Hatsukami DK, **Luo X**. A Bayesian measurement error model for the effect of cigarette filter ventilation on biomarker exposures of smokers. ENAR 2024 (submitted).

33. Wolf JM, Vock DM, **Luo X**, Hatsukami DK, McClernon FJ, Koopmeiners JS. Leveraging information from secondary endpoints to enhance dynamic borrowing across subpopulations. ENAR 2024 (submitted).

Departmental Seminars/Internal Presentations:

34. Recurrent event models in the presence of a terminal event: comparison, inference and data analysis. Division of Biostatistics, School of Public Health, University of Minnesota, 2006 (Invited talk).

35. Analysis of recurrent event data under the case-crossover design with applications to elderly falls. Seminar, Division of Biostatistics, School of Public Health, University of Minnesota, 2007.

36. Propensity score analysis with PATH data, presentation, Consortium on Methods Evaluating Tobacco (COMET) Biostatistics Core, University of Minnesota, 11/17/2021.

37. Statistical methods for behavioral economics data in tobacco research. Division of Biostatistics, School of Public Health, University of Minnesota, 3/15/2022 (Invited talk).

38. Zhang C, Chu H, Paudel N, Stepanov I, Carroll D, Yershova K, Koopmeiners J, Donny EC, Hatsukami DK, **Luo X**. Bayesian Measurement error model: assessing cigarette filter ventilation's impact on biomarkers. University of Minnesota Masonic Cancer Center Research Symposium, 10/30/2023 (seleted for poster presentation).

Coauthored Conference Presentations/Posters/Abstracts:

39. Harker-Murray PD, Verneris MR, Thomas AJ, **Luo X**, MacMillan ML, Tolar J, Baker KS, Wagner JE, Orchard PJ. Hematopoietic cell transplantation as therapy for pediatric patients with relapsed acute lymphoblastic leukemia with and without CNS involvement. *The American Society of Hematology (ASH) Annual Meeting Abstracts 2006*, *Blood* 108(11): 886A-887A. Abstract 3110.

40. Tomblyn M, Blazar B, Dusenbery K, Miller JS, Burns LJ, **Luo X**, DeFor T, Brunstein C, Arora M, MacMillan ML, Verneris M, Wagner J Jr., Weisdorf DJ. Promising Progression Free and Overall Survival Using a Novel (CY/FLU/TBI) Reduced-Intensity Conditioning (RIC) Regimen for Allogeneic Sibling Stem Cell Transplantation (SCT). *ASH 2006*, *Blood* 108(11): 850A-851A. Abstract 2999.

41. Long-Boyle J, Oetting W, Wang X, **Luo X**, Tomblyn M, Weisdorf D, Jacobson PA. Impact of genetic variants on mycophenolate exposure in hematopoietic cell transplantation (HCT). *ASH 2007*, *Blood* 110(11): 884A. Abstract 3010.

42. Skubitz K, Francis P, Skubitz A, **Luo X**, Nilbert M. Use of gene expression to identify heterogeneity of metastatic behavior among soft tissue sarcomas. *Connective Tissue Oncology Society (CTOS) Annual Meeting 2007*. Abstract 896.

43. Sorock GS, Quigley P, Rutledge M, Taylor J, **Luo X**, Foulis P, Bellantoni M, Baker SP, Varadhan R, Wang M-C. Psychotropic medication changes and the short-term risk of falls in nursing home residents: A case-crossover study. *American Public Health Association (APHA) 135th Meeting 2007*. Abstract 157696.

44. Burke MJ, Trotz B, **Luo X**, DeFor T, Burns L, Baker KS, Weisdorf D, Wagner JE, Verneris MR. Allogeneic hematopoietic cell transplantation (Allo-HCT) for Philadelphia chromosome positive acute lymphoblastic leukemias: impact of Imatinib on risk of relapse and survival. *BMT Tandem Meetings 2008. Biology of Blood and Marrow Transplantation*, 14(2):56-57.

45. Burke MJ, Trotz B, **Luo X**, DeFor T, Baker KS, Wagner JE, Verneris MR. Allogeneic hematopoietic cell transplantation (Allo-HCT) for Philadelphia chromosome positive acute lymphoblastic leukemia: impact of Imatinib on risk of relapse and survival. *The American Society of Pediatric Hematology/Oncology (ASPHO) 2008 meeting.* Abstract 1284.

46. An LC, Berg CJ, Klatt CM, Perry CL, Thomas JL, **Luo X**, Ehlinger E, Ahluwalia JS. Symptoms of cough and shortness of breath among occasinal young adult smokers. *Society for research on Nicotine and Tobacco (SRNT)'s 14th Annual Meeting 2008.* POS5-97.

47. Mercurio AM, Thomas JL, An LC, Ahluwalia JS, Scherber R, Berg CJ, Rangel M, Lust K, Golden D, Ehlinger E, **Luo X**. Predictors of long-term abstinence among college campus "Quit & Win" participants. *Society of Behavioral Medicine (SBM) 2008 Meeting.* (Poster).

48. Lee HY, **Luo X**, Lundquist M. Colorectal cancer screening disparities in Asian Americans: exploring subgroup differences and associated determinants. *Society of Social Work Research (SSWR) Cancer Symposium 2009.* #9387.

49. Cooley S, Parham P, Trachtenberg E, **Luo X**, Le C, Klein J, Marsh SGE, Weisdorf DJ, Miller JS. The relapse-free survival benefit associated with group B KIR haplotype donors for unrelated hematopoietic cell transplantation is unique to acute myelogenous leukemia. *2009 BMT Tandem Meetings. Biology of Blood and Marrow Transplantation* 15(2):3.

50. Sperduto PW, Chao ST, Sneed PK, **Luo X**, Suh J, Roberge D, Bhatt A, Jensen A, Brown PD, Shih H, Kirkpatrick J, Schwer A, Gaspar LE, Fiveash J, Chiang V, Knisely J, Sperduto1 CM, Mehta M. Diagnosis-specific prognostic factors, indices and treatment outcomes for patients with newly-diagnosed brain metastases: a multi-institutional analysis of over 5000 patients. *American Society for Therapeutic Radiology and Oncology (ASTRO) 51th Annual Meeting, 2009. International Journal of Radiation Oncology Biology Physics* 75(3), Supplement, Page S225.

51. Lazovich D, Weinstock M, Warshaw E, **Luo X**, Berwick M, Anderson K. Patterns of indoor tanning use among adults in Minnesota. *The 7th World Congress on Melanoma, 2009.*

52. Cooley S, Guethlein L, Trachtenberg E, Ladner M, **Luo X**, Le CT, Wang T, Klein JP, Marsh SGE, Spellman S, Haagenson MD, Weisdorf DJ, Parham P and Miller JS. Selection of donors with favorable KIR B genotypes for unrelated hematopoietic cell transplantation results in superior relapse protection and better relapse-free survival for patients with AML. *ASH 2009.* Abstract 665.

53. Davydova J, Gavrikova T, Brown E, Ono HA, **Luo X**, Curiel DT, Vickers SM, Yamamoto M. Conditionally replicative adenovirus with an adenoviral major late promoter-driven imaging cassette predicts in vivo anti-tumor effect. *American Society of Gene and Cell Therapy (ASGCT) 2010 Annual Meeting.* Abstract 497.

54. Sperduto PW, Xu Z, Sneed PK, **Luo X**, Roberge D, Bhatt A, Jensen AW, Shih H, Kirkpatrick J, Schwer A. A Graded Prognostic Assessment (GPA) for Women with Breast Cancer and Brain Metastases. *American Society of Clinical Oncology (ASCO) 2010 Annual Meeting.* Paper#51909.

55. Rehman A, Blaes AH, **Luo X**, Menge MR, Yee D, Missov E. Use of high-sensitivity cardiac troponin T to predict changes in left ventricular function in cancer patients treated with doxorubicin. *ASCO 2010.* Abstract ID: e19504

56. Davydova J, Ono HA, Gavrikova T, Brown E, **Luo X**, Curiel DT, Vickers SM, Yamamoto M. Oncolytic adenovirus with a major late promoter-driven imagine cassette predicts in vivo anti-tumor effect. *Japanese Society of Gene Therapy, the 16th annual meeting, 2010.*

57. Sperduto PW, Xu Z, Sneed PP, **Luo X**, Roberge D, Bhatt AK, Jensen AW, Shih HA, Kirkpatrick J, Gaspar LE, et al. The graded prognostic assessment for women with brain metastases from breast cancer (GPA-Breast): a diagnosis-specific prognostic index. *American Society for Therapeutic Radiology and Oncology (ASTRO) 52nd Annual Meeting, 2010.*

58. Cooley S, Wagner JE, Brunstein C, **Luo X**, DeFor T, Hagiwara M, Orreggio G, Curtsinger J, Blazar BR, McGlave P, Miller JS and Verneris MR. Impact of graft source on immune recovery: comparisons between unrelated umbilical cord blood (UCB), HLA matched sibling (Sib) donor and autologous (Auto) hematopoietic stem cells. *ASH 2010.* (poster)

59. Cooley S, Foley B, Verneris MR, McKenna D, **Luo X**, Dusenbery KE, Blazar BR, Weisdorf DJ, Miller JS. Haploidentical natural killer (NK) cells expanding in vivo after adoptive transfer exhibit hyperfunction that partially overcomes self tolerance and leads to clearance of refractory leukemia. *ASH 2011. Blood* 2011, 118:355.

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61. Majidi S, **Luo X**, Souslian FG, Zhang J, Tummala R, Divani AA. Comparison of Different Measurement Techniques for Hematoma Volume in Phantom Models of Intracerebral Hemorrhage. *The 63rd Annual Meeting of the American Academy of Neurology*, Honolulu, HI. April 19-16, 2011.

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63. Skubitz KM, Francis P, Skubitz A, **Luo X**, Nilbert M. Heterogeneity of metastatic behavior among high-grade pleomorphic soft tissue sarcomas identified by gene expression analysis. *American Society of Clinical Oncology (ASCO) 2011 Annual Meeting*, Chicago, IL, June 3-7, 2011. Abstract #10082.

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65. Thomson RM, **Luo X**, Paredes-Andrade E, Divani AA. Comparison of different hematoma volume coefficients in intracerebral hemorrhage. *The 64th Annual Meeting of the American Academy of Neurology*, New Orleans, LA. April 21-28, 2012.

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68. Han J, Nelson SR, Dos Santos T, Shanley R, **Luo X**, Aoki K, Vickers SM, Yamamoto M, Davydova J. Antitumor effect of oncolytic adenovirus-based interferon therapy in combination with chemoradiotherapy in an immunocompetent hamster model. *The 18th Annual Meeting of Japanese society of gene therapy (JSGT)*, Kumamoto, Japan, June 28-30, 2012. Oral Presentation.

69. Han J, Miura Y, Shanley R, **Luo X**, Aoki K, Vickers SM, Yamamoto M, Davydova J. Improved effect of chemoradiotherapy in combination with adenovirus-mediated interferon therapy. *International symposium on Pancreas Cancer 2012*, Kyoto, Japan, October 4-6, 2012 (ID-P0078).

70. Divani AA, Thomson RM, **Luo X**, Saurez JI, Bershad EM. Risk Factors for In-hospital Pneumonia in Intracerebral Hemorrhage. *The 8th World Stroke Congress*, Brasilia, Brazil, October 10-13, 2012.

71. Divani AA, Thomson RM, Bhatia P, Murphy AJ, **Luo X**. Effect of Untreated Hypertension on In-Hospital Outcomes among Intracerebral Hemorrhage Patients. *The 8th World Stroke Congress*, Brasilia, Brazil. October 10-13, 2012.

72. Thomson RM, Bhatia P, **Luo X**, Murphy AJ, Divani AA. Relevance of Various Hematoma Volume Coefficients with In-hospital Outcomes in Intracerebral hemorrhage. *The 8th World Stroke Congress*, Brasilia, Brazil, October 10-13, 2012.

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75. Sperduto PW, Shanley R, **Luo X**, Kased N, Sneed PK, Roberge D, Chao ST, Weil RJ, Suh J, Bhatt A, Jensen AW, Brown PD, Shih HA, Kirkpatrick J, Gaspar LE, Fiveash JB, Chiang V, Knisely JPS, Sperduto CM, Lin N, Mehta M. Evidence of interaction between HER2 and estrogen/progesterone status in patients with breast cancer and brain metastases. *The 17th Annual Scientific Meeting and Education Day of the Society of Neuro-Oncology*, Washington D.C., November 15-18, 2012 (poster).

76. Skubitz KM, Skubitz AP, Xu WW, **Luo X**, Lagarde P, Coindre J-M, Chibon F. Gene expression identifies heterogeneity of metastatic behavior among high grade plemorphic soft tissue sarcomas. *17th CTOS Annual Meeting*, Prague, Czech Republic, November 14-17, 2012 (ID: 1424007).

77. Ogunfolami O, **Luo X**, Lowry S, Hennrikus D, Schreier M, Ronco J, Ahluwalia JS, Price A, Cronquest S, Ross A, Ndagui K, Thomas J. Parental perception of the association between home secondhand smoke (SHS) exposure and child's health. *SRNT*, Boston, Massachusetts, March 13-16, 2013 (poster).

78. Ghidei W, Ahluwalia JS, Ronco JE, **Luo X**, Lust K, Nyman J, Rudie M, Schreier M, Wang Q, An L., Marigi EM, Orange S, Chambless, S, Thomas JL. Promoting cessation using college Quit and Win Contests: acceptability, reach and efficacy. *SRNT*, Boston, Massachusetts, March 13-16, 2013 (poster).

79. Marigi E, Ahluwalia JS, Ronco JE, **Luo X**, Lust K, Rudie M, Schreier M, Wang Q, An L, Thomas JL. "Dual smokers" (hookah + cigarettes) vs. cigarette smokers only: comparison of 30-day continuous abstinence rates. *SRNT*, Boston, Massachusetts, March 13-16, 2013 (poster).

80. Ghidei W, Ahluwalia JS, Ronco JE, **Luo X**, Schreier M, Wang Q., Thomas JL. Social influence and social support as predictors of cessation among college students enrolled in a Quit and Win Contest. *The Annual Meeting of the Society of Behavioral Medicine*, San Francisco, California, March 20-23, 2013 (poster).

81. Han J, Miura Y, Shanley R, **Luo X**, Aoki K, Vickers SM, Yamamoto M, Davydova J. Oncolytic Adenovirus-Mediated Interferon Expression Augments Chemoradiation Therapy in Immunocompetent Pancreatic Cancer Model. *American Society of Gene and Cell therapy meeting (ASGCT)* 2013 (abstract published in the May Supplement Issue of *Molecular Therapy*).

82. Sperduto PW, Shanley R, **Luo X**, Andrews D, Werner-Wasik M, Valicenti R, Bahary J-P, Souhami L, Won M, Mehta M. Secondary analysis of RTOG 9508, a phase III randomized trial of whole brain radiation therapy (WBRT) versus WBRT plus stereotactic radiosurgery (SRS) in patients with 1-3 brain metastases; post-stratified by the graded prognostic assessment (GPA). *The American Society for Radiation Oncology (ASTRO)'s 55th Annual Meeting*, Georgia, Atlanta, September 22 - 25, 2013 (abstract published in *International Journal of Radiation Oncology, Biology, Physics*, **87**(2), Supplement, S51-S52).

83. Skubitz KM, Skubitz A, Xu W, **Luo X**, Lagarde P, Coindre J-M, Chibon F. Prediction of metastatic behavior in high grade pleomorphic soft tissue sarcomas by gene expression. *American Society of Clinical Oncology (ASCO) 2013 Annual Meeting*, Chicago, Illinois, May 31 - Jun 4, 2013 (Poster, Abstract No: 10561).

84. Schreier M, **Luo X**, Lowry S, Hennrikus D, Murphy S, Hecht S, Ahluwalia JS, An L, Wetter D, Lipkus I, Borrelli B, Hovell M, Hammond K, Bengtson J, Thomas J. Utilizing biomarker feedback documenting child exposure to tobacco toxins in second-hand smoke to promote smoke-free homes. *SRNT*, Seattle, WA, February 5-8, 2014 (oral presentation).

85. Bengtson J, **Luo X**, Wang Q, Schreier M, Ghidei W, Nyman J, Lust K, Rudie M, An L, Wetter D, Epstein L, Ahluwalia JS, Thomas J. Enhancing and extending "Quit and Win" contests targeting college smokers: impact on six-month abstinence outcomes. *SRNT*, Seattle, WA, February 5-8, 2014 (poster).

86. Pulvers K, Scheuermann TS, Basora B, Emami A, **Luo X**, Ahluwalia JS. Reasons for smoking among tri-ethnic daily and nondaily smokers. *SRNT*, Seattle, WA, February 5-8, 2014 (poster).

87. Scheuermann TS, Nollen NL, **Luo X**, Ahluwalia JS. Characteristics of nondaily and daily smokers. *SRNT*, Seattle, WA, February 5-8, 2014 (poster).

88. Pulvers K, Scheuermann TS, Romero DR, Basora B, **Luo X**, Ahluwalia JS. Nondaily and daily smokers' identity and classification of a smoker. *SRNT*, Seattle, WA, February 5-8, 2014 (poster).

89. Khariwala SS, Scheuermann T, **Luo X**, Nollen NL, Pulvers K, Siddiqi K, Sherman S, Ahluwalia JS. Racial differences in physician initiated smoking cessation counseling of daily and nondailty smokers. *SRNT*, Philadelphia, PA, February 25-28, 2015.

90. Khariwala SS, Scheuermann T, **Luo X**, Nollen NL, Pulvers K, Siddiqi K, Sherman S, Ahluwalia JS. Do physicians differentiate between daily and nondaily smokers when counseling for smoking? *SRNT*, Philadelphia, PA, February 25-28, 2015.

91. Shanap MSA, Cooley S, **Luo X**, Curtsinger J, Cao Q, Bergerson R, Bejanyan N, Stefanski H, Brunstein C, Weisdorf DJ, Blazar BR, Miller JS, Wagner JE, Verneris MR. Defining perfect immune reconstitution after allogeneic hematopoietic stem cell transplantation. *ASH*, Orlando, FL, December 5-8, 2015.

92. Mehta RS, Wangen R, Cichocki F, Felices M, **Luo X**, Weisdorf DJ, Verneris MR, Miller JS, Cooley S. Adaptive NK cell expansion is associated with reduced relapse of lymphoid malignancies after autologous hematopoietic cell transplant. *ASH*, San Diego, CA, December 3-6, 2016. *Blood* 2016, 128:515.

93. Bejanyan N, Brunstein CG, Cao Q, Mehta RS, **Luo X**, Curtsinger J, Cooley S, Blazar BR, Miller JS, Weisdorf DJ, Wagner JE, Verneris MR. Immune reconstitution (IR) after allogeneic hematopoietic cell transplantation (alloHCT): comparing results in recipients of unrelated umbilical cord blood (UCB) to those with an HLA-matched sibling donor peripheral blood (MSD PB). *ASH*, San Diego, CA, December 3-6, 2016. *Blood* 2016, 128:4590.

94. Mehta RS, Bejanyan N, Cao Q, **Luo X**, Brunstein C, Cooley S, Blazar BR, Weisdorf DJ, Wagner JE, Miller JS, Verneris MR. Immune reconstitution after umbilical cord blood versus peripheral blood progenitor cell transplantation in adults following myeloablative conditioning. *ASH*, San Diego, CA, December 3-6, 2016. *Blood* 2016, 128:2246.

95. Smith T, Cassidy R, Koopmeiners J, **Luo X**, Rupprecht L, Sved A, Tidey J, Hatsukami D, Donny E. Behavioral economic assessments of the impact of nicotine reduction on rat self-administration and human smoking. *SRNT*, Florence, Italy, March 8-11, 2017 (talk).

96. Dermody SS, McClernon FJ, Benowitz N, Koopmeiners J, **Luo X**, Tidey J, Vandry R, Hatsukami D, Donny EC. The effects of adherence with exclusively smoking very low nicotine content cigarettes on withdrawal symptoms. *SRNT*, Florence, Italy, March 8-11, 2017 (talk).

97. Smith TT, Donny EC, Koopmeiners JS, Benowitz NL, Cinciripini P, Dermody SS, Drobes DJ, **Luo X**, McClernon FJ, Pacek LR, Vandrey R, Hatsukami DK. Baseline nicotine dependence moderates the impact of nicotine reduction on changes in nicotine dependence. *SRNT*, Florence, Italy, March 8-11, 2017 (poster).

98. Ojo-Fati O, Pratt R, Carlson S, Cooney N, Everson-Rose S, Joseph A, **Luo X**, Strobel C, Thomas J, Kerandi L, Okuyemi K. Psychosocial factors and adherence to a combined smoking and alcohol intervention among homeless smokers. *SRNT*, Baltimore, MD, February 21-24, 2018 (poster).

99. Jensen J, Rubin N, **Luo X**, Donny E, Hatsukami D. Impact of very low nicotine content (VLNC) cigarettes on weight. *SRNT*, Baltimore, MD, February 21-24, 2018 (poster).

100. Meier E, Jensen JA, Donny E, Hecht SS, Carmella SG, Murphy SE, **Luo X**, Stepanov I, Hatsukami DK. Exclusive cigarette smokers vs. co-users of marijuana and cigarettes: exposure to toxicants. *SRNT*, Baltimore, MD, February 21-24, 2018 (poster).

101. Carroll D, Jensen J, Donny E, Hecht S, Murphy S, **Luo X**, Stepanov I, Hatsukami D. Perceived health risks and biomarkers of potential harm among natural American Spirit smokers. *SRNT*, Baltimore, MD, February 21-24, 2018 (talk).

102. Chen M, Carmella SG, **Luo X**, Hatsukami DK, Hecht SS. Longitudinal stability of urinary mercapturic acids of acrolein, crotonaldehyde, and acrylonitrile in smokers determined by APCI-LC-MS/MS-SRM. *The 66th ASMS Conference on Mass Spectrometry and Allied Topics*, San Diego, CA, June 3-7, 2018 (poster).

103. Pratt R, Everson-Rose S, Joseph A, **Luo X**, Cooney N, Thomas J, Okuyemi K. The impact of the social environment on participation in a smoking cessation RCT: a qualitative study of homeless smokers. *The North American Primary Care Research Group (NAPCRG) 2018 Conference*, Chicago, IL, November 9-13, 2018 (talk).

104. Mustafa H, Tessier K, **Luo X**, Reagan L, Contag S. Fetal growth reference standards For Somali population. *The 39th Annual SMFM Pregnancy Meeting*, Las Vegas, NV, February 16, 2019 (poster). *American Journal of Obstetrics & Gynecology*, 220(1) Supplment: S620-S621.

105. Denlinger-Apte R, Kotlyar M, Koopmeiners J, Tidey J, **Luo X**, Jensen J, Vandrey R, Donny E, Hatsukami D. The effects of menthol flavoring on smoking behavior and biomarkers of exposure in smokers using very low nicotine content cigarettes for 20 weeks. *SRNT*, San Francisco, CA, February 20-23, 2019. Abstract PA6-4.

106. Bachanova V, McKenna DH, **Luo X**, DeFor TE, Cooley S, Warlick E, Weisdorf DJ, Brachya G, Peled T, Miller JS. First-in-human phase I study of nicotinamide-expanded related donor natural killer cells for the treatment of relapsed/refractory non-Hodgkin lymphoma and multiple myeloma. *Transplantation & Cellular Therapy Meetings of ASBMT and CIBMTR*, Houston, TX, February 20-24, 2019 (Poster 242). *Biol Blood Marrow Transplant* 25(2019)S175-S176.

107. Luo K, Hochalter JB, Paiano V, **Luo X**, Cao W, Wang J, Sipe CJ, Carmella SG, Murphy SE, Hatsukami D, Jensen J, Fujioka N, Lam S, Bergstrom L, Midthun D, Hecht SS. Multiple deuterated phenanthrene metabolites as probes for the metabolism of carcinogenic PAHs in humans: Phenotyping, genotyping and potential application in human health risk assessment. *258th National Meeting and Exposition of the American Chemical Society (ACS) – Chemistry & Water*, San Diego, CA, Aug 25-29, 2019.

108. Bachanova V, McKenna DH, **Luo X**, DeFor TE, He F, Janakiram M, Warlick E, Wangen R, Cayce Z, Grzywacz B, Brachya G, Peled T, Miller J. Results of a phase 1 trial of GDA-201,

nicotinamide-expanded allogeneic natural killer vells (NAM-NK) in patients with refractory non-Hodgkin lymphoma (NHL) and multiple myeloma (MM). *ASH*, Orlando, FL, December 7-10, 2019. Abstract 777.

109. Vogel RI, Nagler R, Ahmed R, Brown K, **Luo X**, Martinson B, Lazovich D. Protocol for a randomized controlled trial to determine the effectiveness of a UVR-sensor wearable device intervention to improve sun behaviors and reduce sunburns in melanoma survivors. *Melanoma Research Alliance Scientific Retreat*, Washington D.C., February 26-28, 2020. (poster).

110. Denlinger-Apte RL, Koopmeiners JS, Tidey JW, **Luo X**, Smith TT, Pacek LR, McClernon FJ, Jenson J, Colby SM, Severson H, Donny EC, Hatsukami DK. Correlates of support for a nicotine reduction policy among smokers enrolled in a 20-week trial of very low nicotine content cigarettes. *American Society of Preventive Oncology Conference*, Tucson, AZ, March 22-24, 2020 (oral presentation).

111. Carroll DM, Stepanov I, O'Connor R, **Luo X**, Cummings KM, Rees V, Bickel WK, Ashley D, Berman M, Shields P, Hatsukami DK. Cigarette filter ventilation and biomarkers of exposure and biological effect and perceptions of harm. *SRNT*, New Orleans, March 11-14, 2020.

112. Meier EM, Tessier K, **Luo X**, Murphy S, Hecht S, Hatsukami D. Cigarette smokers, marijuana smokers, co-users - exposure to toxicants. *SRNT*, New Orleans, March 11-14, 2020.

113. Gades MS, **Luo X**, Lindgren BR, Meier E, Bickel W, OConnor RJ, Shields PG, Hatsukami D. Using a tobacco purchase task to assess the roles of cigarette and electronic cigarette demand in electronic cigarette uptake and substitution in adult smokers. *SRNT*, New Orleans, March 11-14, 2020. (poster).

114. Pratt R, Joseph A, **Luo X**, Everson-Rose SA, Cooney N, Specker S, Thomas J, Okuyemi K, Power to Quit 2 resuls from a smoking and alcohol cessation intervention in the homeless population. *SRNT*, New Orleans, February 24-27, 2021. (POD32-2).

115. Drozdov D, Bunch DR, Van Hee M, Dong X, Knight-Perry J, **Luo X**, Abraham RS, Ebens CL. Relevance of monitoring thymic function and recovery in interpreting immune reconstitution post hematopoietic cell transplantation in inborn errors of immunity. *NICER 2022 Annual Symposium*, Sep 28-30, 2022 (virtual).

116. Klemperer EM, **Luo X**, Jensen J, al'Absi M, Cinciripini PM, Robinson JD, Drobes DJ, McClernon J, Strasser AA, Strayer LG, Vandrey R, Benowitz NL, Donny EC, Hatsukami DK. Smoking abstinence and cessation-related outcomes one month after an immediate versus gradual reduction in nicotine content of cigarettes. *NIH Tobacco Centers of Regulatory Science Fall TCORS Grantee Meeting*, Oct 24-25, 2022 (virtual talk).

117. Denlinger-Apte RL, Rubin N, Rubenstein D, Benowitz N, Carroll DC, Dermody SS, Donny EC, Jensen JA, Koopmeiners JS, **Luo X**, McClernon FJ, Smith TT, Tidey JW, Hatsukami DK. Dependence as a moderator of treatment effects after 20 weeks of exposure to very low nicotine cigarettes. *NIH Tobacco Centers of Regulatory Science Fall TCORS Grantee Meeting*, Oct 24-25, 2022.

118. Drozdov D, Bunch DR, **Luo X**, Van Hee M, Dong X, Knight-Perry J, Abraham RS, Ebens CL. Relevance of monitoring thymic function and recovery in interpreting immune reconstitution post hematopoietic cell transplantation in pediatric patients with inborn errors of immunity. *ASH*, New Orleans, Louisiana, December 10-13, 2022 (Poster).

119. Drozdov D, Bunch DR, **Luo X**, Van Hee M, Dong X, Knight-Perry J, Abraham RS, Ebens CL. Relevance of monitoring thymic function and recovery in interpreting immune reconstitution post hematopoietic cell transplantation in inborn errors of immunity. *Tandem Meetings*, Orlando, FL, Feb 15-19, 2023.

120. Rashidi A, Ebadi M, Ur Rehman T, Elhusseini H, Kazadi D, Halaweish H, Khan MH, Hoeschen A, Cao Q, **Luo X**, Holtan SG, Weisdorf DJ, Khoruts A, Staley C. A double-blind placebo-controlled trial of fecal microbiota transplantation in allogeneic hematopoietic cell transplantation recipients. *Tandem Meetings*, Orlando, FL, Feb 15-19, 2023.

121. Onigbogi O, et al. Association between psychosocial factors and co-morbid heavy cigarette smoking and alcohol use in a homeless population. *SRNT*, San Antonio, TX, March 1-4, 2023 (poster).

122. Rashidi A, Ebadi M, Ur Rehman T, Elhusseini H, Kazadi D, Halaweish H, Khan MH, Hoeschen A, Cao Q, **Luo X**, Kabage AJ, Lopez S, Holtan SG, Weisdorf DJ, Khoruts A, Staley C. Donor microbiota engraftment after fecal microbiota transplantation may help prevent acute graft-versus-host disease. *ASH*, San Diego, CA, December 9-12, 2023 (submitted).

123. Carroll DM, **Luo X**, Yershova K, Hatsukami DK, Stepanov I. Associations between added sugar in U.S. cigarettes and biomarkers of harmful exposure in adults who smoke. *SRNT*, Edinburgh, Scotland, March 20-23, 2024 (submitted).

124. Denlinger-Apte R, Harwood E, Aguilar A, Cao Q, Chandler A, Donny E, **Luo X**, Robinson B, Strahley A, Strayer L, Wiseman K, Hatsukami D. Reactions to very low nicotine cigarettes, alternative nicotine products, and proposed nicotine reduction regulation after completing a 12-week, open-label trial: a mixed methods analysis. *SRNT*, Edinburgh, Scotland, March 20-23, 2024 (submitted).

125. Carroll DM, Hu J, **Luo X**, Hu J, Cao Q, Jensen J, Hecht SS, Murphy S, Tidey J, Colby SM, Bello MS, Strasser AA, Benowitz N, McClernon FJ, Denlinger-Apte RL, Donny EC, Hatsukami DK. A health equity centered evaluation of a randomized controlled trial of very low nicotine content cigarettes in adults who smoke daily. *SRNT*, Edinburgh, Scotland, March 20-23, 2024 (submitted).

126. Hatsukami D, Carroll DM, **Luo X**, Cao Q, Jensen J, Strayer L, Hecht S, Murphy S, White C, Tidey J, Strasser AA, Benowitz N, McClernon FJ, Donny EC. Patterns of non-combusted nicotine delivery system use in an experimental marketplace with very low vs. normal nicotine content cigarettes. *SRNT*, Edinburgh, Scotland, March 20-23, 2024 (submitted).

127. Combined smoking cessation and alcohol abstinence treatment for people experiencing homelessness: a randomized trial. *SRNT*, Edinburgh, Scotland, March 20-23, 2024 (submitted).

128. Rashidi A, Ebadi M, Ur Rehman T, Elhusseini H, Kazadi D, Halaweish H, Khan MH, Hoeschen A, Cao Q, **Luo X**, Holtan SG, Weisdorf DJ, Liu C, Ishiii S, Khoruts A, Staley C. Bimodal Effect of Fecal Microbiota Transplantation on Antibiotic Resistance Genes: Results from a Randomized Placebo-Controlled Trial. *2024 Tandem Meetings* (submitted).

EDUCATIONAL ACTIVITIES

Teaching:

- Teaching Assistant/Lab Instructor, Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, 2001-2005.

  - Statistical Methods in Public Health I-IV
  - Introduction to Statistical Theory I & II
  - Survival Analysis
  - Statistics for Psychosocial Research: Measurement and Structural Models
  - Data Analysis Workshop I, II (Summer Institute course)
  - Survival Analysis (Summer Institute course).

- Division of Biostatistics, School of Public Health, University of Minnesota, 2006 – present.

  Sole or Co-Instructor:
  - Advanced Longitudinal Data Analysis
  - Survival Data Analysis
  - Advanced Regression (Categorical Data Analysis)

  Guest Lecturor or Discussant:
  - Survival Data Analysis - Multivariate Survival Analysis
  - Research Skills in Biostatistics
  - Summer Institute in Biostatistics (SIBS)

PhD Thesis Advising:

1. **Chihyun Lee**, PhD of Biostatistics, 8/20/2015, "Nonparametric and Semiparametric Methods for Recurrent Gap Time Data" (advised jointly with Dr. James Hodges).

   - ENAR Spring 2014 Distinguished Student Paper Award.
   - University of Minnesota School of Public Health 2014 Research Day PhD Awards, 3rd Place.
   - Thesis papers published in *Biometrics*, *Statistics in Medicine*, *Statistica Sinica*.

2. **Tianmeng Lyu**, PhD of Biostatistics, 5/25/2018, "Smoothing techniques and regression models for recurrent event data" (advised jointly with Dr. Yifei Sun, Columbia University).

   - University of Minnesota Division of Biostatistics Best Student Paper Award, 2018.
   - Delta Omega National Honor Society, inducted 2018.
   - Thesis papers published in *Statistics in Medicine*, *Statistical Methods in Medical Research*, *Journal of Data Science*.

3. **Anne Eaton**, PhD of Biostatistics, 5/26/2020, "Non-Parametric Estimation of Probability in Disease States, Restricted Mean Time in Disease States, and Mean Cumulative Marker Process".

- – ASA Twin Cities Chapter 2019 Spring Meeting, student poster competition 2nd place.

- – Thesis paper published in *Biometrics*.

4. **Sandra Castro-Pearson**, PhD of Biostatistics, 12/7/2022, "Applications of ROC Type Curves in Clinical Trials" (advised jointly with Dr. Chap Le).

- – Won the Society of Clinical Trials 2022 EDI Student Travel Award.

- – Thesis paper published in *Contemporary Clinical Trials*.

5. Michelle Sonnenberger, PhD of Biostatistics, 2024 expected (advised jointly with Dr. Thomas Murray).

MS Thesis Advising:

1. **Xiao Liu**, MS of Biostatistics, 07/25/2008, "Analysis of Incomplete Longitudinal Data: Anti-Tumor Activities of Angiogenesis Inhibitors".

2. **Matthew Rousseau**, MS of Biostatistics, 07/08/2009, "Determining the Impact of Donor KIR Genotypes on AML Patients Who Underwent HCT Using Ordinary and Competing Risks Survival Data".

3. **Ryan Shanley**, MS of Biostatistics, 06/30/2010, "A Comparison of Two New Prognostic Indices for Breast Cancer Patients with Brain Metastases Using Cox Regression and Recursive Partitioning".

4. **Binglin Yue**, MS of Biostatistics, 6/20/2011, "Commonality Analysis for Survival Data, with an Application to Data from Breast Cancer Patients with Newly Diagnosed Brain Metastases".

5. **Wenjie Liao**, MS of Biostatistics, 3/26/2012, "Analysis of Cigarette Purchase Task Survey Data: A Statistical Perspective".

- – MS thesis paper published in *Experimental and Clinical Psychopharmacology*.

6. **Tingting Zhao**, MS of Biostatistics, 7/10/2013, "Two-Part Mixture Model for Cigarette Purchase Task Data".

- – MS thesis paper published in *Journal of the Experimental Analysis of Behavior*.

7. **Yiwen Zhang**, MS of Biostatistics, 8/28/2014, "Analysis of Missing Data for a Smoking Cessation Study".

- – MS thesis paper published in *BMC Medical Research Methodology*.

8. **Jane Gringauz**, MS of Biostatistics, 8/22/2017, "Joint Modeling of NK Cells Longitudinal Measurements and Relapse-Free Survival for Bone Marrow Transplanted Patients".

9. **Brian Kwan**, MS of Biostatistics, 8/22/2017, "Categorizing Continuous Covariates in Survival Analysis with Applications to Bone Marrow Transplant Data".

10. **Luoxi Shi**, MS of Biostatistics, 6/7/2018, "Statistical Methods for Analyzing the Area Under the Curve of Longitudinally Measured Biomarkers with Missing Data."

– One of the three selected student presentations at the ASA Twin Cities Chapter 2018 Spring Meeting, April 16, 2018.

– MS thesis paper published in *Pharmaceutical Statistics*.

11. **Hao Yuan**, MS of Statistics, 11/15/2018, "Analysis of Recurrent Abstinence of Cigarette Smokers with Event Monitoring Gaps and Intermittently Observed Time-Dependent Covariates."

12. **Shengwei Zhang**, MS of Biostatistics, 7/9/2019, "A Bayesian Hierarchical Model for Meta-Analysis of Demand Curves" (advised jointly with Dr. Haitao Chu).

– MS thesis paper published in *Statistics in Medicine*.

13. **Neelanzana Paudel**, MS of Biostatistics, 8/28/2023, "Impact of Cigarette Filter Ventilation on Biomarkers of Exposure and Self-Reported Tobacco Measures: A Validation Study."

14. **Can Zhang**, MS of Biostatistics, 2024 expected, "A Bayesian Measurement Error Model for the Analysis of the Effect of Cigarette Filter Ventilation on Biomarker Exposures" (advised jointly with Dr. Haitao Chu).

– UMN Division of Biostatistics Student Poster Competition Audience Favorite Award, 2023.

– Selected for poster presentation at the UMN Masonic Cancer Center Research Symposium, 10/30/2023.

Mentoring of Clinical or Translational Researchers:

1. Antonella Borgatti, Assistant Professor of Veterinary Clinical Sciences, University of Minnesota College of Veterinary Medicine, NIH K01 Grant "Preclinical evaluation and clinical translation of novel bispecific toxins that target sarcoma tumors and their vasculature", 6/1/2014 - 5/31/2020.

2. Lucie Turcotte, Assistant Professor of Pediatric Hematology and Oncology, University of Minnesota Medical School, UMN CTSI Pre-K Career Development Grant "The Role of the Immune System in Development of Cardiometabolic Syndrome Among Survivors of Hematopoietic Cell Transplantation", 9/1/2014-8/31/2016.

3. Christen Ebens, Assistant Professor of Pediatric Blood and Marrow Transplantation, University of Minnesota Medical School, UMN CTSI KL2 Grant "Epidermolysis Bullosa: Characterizing and Targeting Immune Dysfunction", 7/1/2019 - present.

4. Joan Beckman, Assistant Professor of Medicine, Division of Hematology, Oncology and Transplantation, NIH K08 Grant "Engineered microsystems to asses endothelial contribution to myeloproliferative neoplasm thrombosis", 06/2022 - 3/2026.

Mentoring of Research Assistants (RA) on Projects:

Sponsored:

1. Tingting Zhao, MS student in Biostatistics, "Statistical Methods for Measuring Relative Reinforcing Efficiency Using Drug Purchase Task Instrument Data" (PI: X. Luo), 6/1/2012 – 5/31/2013.

2. Chihyun Lee, PhD student in Biostatistics, "Quantile Regression Models for Recurrent Gap Time Data" (PI: X. Luo), 8/27/2012 – 1/9/2014.

3. Chihyun Lee, PhD student in Biostatistics, "Statistical Methods for Analyzing Data of Recurrent Infections after Hematopoietic Cell Transplantation" (PI: X. Luo), 7/1/2014 – 8/30/2015.

4. Tien Vo, MS student in Biostatistics, "Online Tri-Ethnic Smoking Study" (PI: J. S. Ahluwalia), 8/11/2014-8/29/2014.

5. Tianmeng Lyu, PhD student in Biostatistics, "Statistical Methods for Analyzing Data of Recurrent Infections after Hematopoietic Cell Transplantation" (PI: X. Luo), 9/1/2015 – 5/29/2016.

6. Sandra Castro Pearson, PhD student in Biostatistics, "Statistical Methods for Bivariate Alternating Recurrent Event Data" (PI: X. Luo), 1/11/2018 – 8/26/2018.

7. Aparagina Sur, PhD student in Biostatistics, "Statistical Methods for Bivariate Alternating Recurrent Event Data" (PI: X. Luo), 8/27/2018 – 8/25/2019.

   Non-sponsored:

8. Wenhao Cao, MS in Biostatistics, "Analysis of the association between amount of smoking and biomarker exposures using structural equation modeling" (supervised jointly with Dr. Haitao Chu), 9/2018 – 2019.

   – Student first-author paper published in *Tobacco Regulatory Science*

9. Jialing Liu, MS in Biostatistics, "A Bayesian approach for analyzing area under the curve of longitudinally measured biomarkers subject to detection limit" (supervised jointly with Dr. Lin Zhang), 1/2022 – present.

Exam Committee:

Name	Degree Program	Exam	Date
Xiaoyuan Wang	MS, Statistics	Plan B final oral	11/28/2006
Huan Tian	MS, Biostatistics	Plan B final oral	04/09/2007
Wei Ouyang	PhD, Health Policy	Preliminary oral	05/29/2007
	& Management	Final oral	04/23/2009
Jia Xu	MS, Biostatistics	Plan B final oral	09/10/2007
Bo Zhang	PhD, Statistics	Preliminary oral	03/11/2008
		Final oral	08/12/2009
Yan Liu	MS, Statistics	Plan B final oral	07/17/2008
Neeta P Shanbhag	MS, Epidemiology	Plan B final oral	10/19/2009
Laura Hatfield	PhD, Biostatistics	Final oral	08/08/2011
Andrew Wey	MS, Biostatistics	Plan B final oral	08/25/2011
Yue Zhou	MS, Health Informatics	Plan B final oral	09/27/2011
Kelsey Walt	MPH, Biostatistics	Plan B final oral	12/13/2011
Clara Shin	MS, Statistics	Plan B final oral	11/20/2014
Jonah Popp	MS, Biostatistics	Plan B final oral	07/10/2015
Xiang Li	MS, Biostatistics	Plan B final oral	07/17/2015
Wen Zhang	MS, Biostatistics	Plan B final oral	08/31/2015
Yun Bai	PhD, Biostatisticis	Preliminary oral	09/17/2015
Samantha Carlson	MPH, Epidemiology	Plan B final oral	10/27/2015
Caroline Groth	PhD, Biostatistics	Preliminary oral	12/02/2015
Kai Zhong	MS, Statistics	Plan B final oral	12/16/2016
Adam Kaplan	MS, Biostatistics	Plan B final oral	03/06/2017
Karin Stather	MS, Biostatistics	Plan B final oral	05/31/2017
Katelyn Tessier	MS, Biostatistics	Plan B final oral	06/02/2017
Mengli Xiao	MS, Biostatistics	Plan B final oral	09/06/2018
Benjiamin Mayhew	MS, Biostatistics	Plan B final oral	05/24/2019
Menglu Liang	MS, Biostatistics	Plan B final oral	06/21/2019

Name	Degree Program	Exam	Date
Yiyao Jin	MS, Biostatistics	Plan B final oral	12/14/2021
Haozuo Zhao	MS, Biostatistics	Plan B final oral	02/21/2022
Qingyi Zeng	MS, Biostatistics	Plan B final oral	7/21/2023
Zirui Deng	MS, Biostatistics	Plan B final oral	7/27/2023