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### EDUCATION

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

- 2013 – present **Associate Professor**, non-tenure track  
Division of Biostatistics, School of Public Health, University of Minnesota  
2006 – 2013 **Assistant Professor**, non-tenure track  
Division of Biostatistics, School of Public Health, University of Minnesota  
2006 – present **Member**, Masonic Cancer Center Biostatistics Core, University of Minnesota

#### Professional Memberships:

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

### SERVICES

#### Committee Memberships:

- ASA Twin Cities Chapter Representative to the Council of Chapters, 2018 – present.

#### Review Panels for External Funding Agencies:

- NIH Special Emphasis Panel, Scientific Review Group ZRG1 HDM-Q (54) R and ZRG1 AARR-G 56 R, RFA: Tobacco Control Regulatory Research FDA/NIH funding initiative in tobacco control regulation research, 2013.
- NIH ZRG1 BST-W (55): Tobacco Regulatory Science A, 2017.

#### Journal Editorial Board or Associate Editor:

- BMC Medicine, 2015 – present.
- BMC Medical Research Methodology, 2016 – present.

#### Journal 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, Statistics in Medicine
- Scientific journals: BMC Medicine, BMC Public Health, BMC Pulmonary Medicine, Evaluation &

the Health Professions, Journal of Clinical Epidemiology, Journal of Clinical Oncology, PLOS One, SpringerPlus, Translational Research, World Health and Population

#### External Data & Safety Monitoring Board (DSMB):

- Studies of multiple myeloma involving autologous stem cell transplantation at the University of Iowa, 2013 - 2015.

#### Institutional/Divisional Committee Memberships:

- Cancer Protocol Review Committee, Non-Therapeutic (CPRC-NT), University of Minnesota Masonic Cancer Center, 2009 - 2016.
- Cancer Center Data Safety and Monitoring Committee (DSMC), University of Minnesota Masonic Cancer Center, 2016 - present.
- APT Ad Hoc Committee on Contract Faculty Evaluation and Promotion, University of Minnesota School of Public Health, 2011-2012
- Clinical and Translational Science Institute Education (CTSI-Ed) Program Annual Poster Session Judge, University of Minnesota Clinical and Translational Science Institute, 2016 and 2017.
- Division of Biostatistics Exam Committee, Division of Biostatistics, School of Public Health, University of Minnesota, 2011-present.

## PUBLICATIONS

**Methods Papers** (\***Luo** was the first author's thesis advisor and the senior or corresponding author. The publication is part of the first author's dissertation):

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**<sup>†</sup>, Huang C-Y<sup>†</sup>. (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. <sup>†</sup> 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. Liao W, **Luo X**<sup>\*</sup>, Le C, Chu H, Epstein LH, Yu J, Ahluwalia 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. Lee CH, **Luo X**<sup>\*</sup>, 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. Zhao T, **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. Lee CH, Huang C-Y, Xu G, **Luo X\***. (2018). Semiparametric regression model for alternating recurrent event data. *Statistics in Medicine*, 2018 March 15; 37(6):996-1008.
10. Lyu T, **Luo X\***, Xu G, Huang C-Y. (2018). Induced smoothing for rank-based regression with recurrent gap time data. *Statistics in Medicine*, 2018 March 30; 37(7):1086–1100.
11. Ho YY, Vo TN, Chu H, LeSage M, **Luo X**, Virnig B, Le C. A Bayesian hierarchical model for demand curve analysis. *Statistical Methods in Medical Research*, published online before print October 20, 2016, doi: 10.1177/0962280216673675.
12. Lee CH, Huang C-Y, DeFor T, Brunstein CG, Weisdorf DJ, **Luo X\***. Semiparametric regression model for recurrent bacterial infections after hematopoietic stem cell transplantation. *Statistica Sinica* (accepted).

#### Collaborative/Scientific Papers:

13. **Luo X**, Ni J. (2000). Advances in land use and land cover change. *Journal of Basic Science and Engineering* (in Chinese), 8:262-272.
14. **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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.

22. 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.
23. 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.
24. 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.
25. 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.
26. Burke MJ, Trotz B, **Luo X**, Baker KS, Weisdorf DJ, Wagner JE, Verneris MR. (2009). Allogeneic hematopoietic cell transplantation for Ph chromosome-positive ALL: impact of imatinib on relapse and survival. *Bone Marrow Transplant*, 43(2):107–113.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.

34. 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.
35. 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.
36. 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.
37. 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):17543–59.
38. 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.
39. 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):2602–8.
40. 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.
41. 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):501–18.
42. 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.
43. 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):2111–7.
44. 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):2665–74.

45. 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):902–9.
46. 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):4235–43.
47. 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):487–94.
48. 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):5082–8.
49. 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):576–81.
50. 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
51. 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.
52. 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.
53. 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.
54. 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.
55. 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-2R $\alpha$  and FasL. *Journal of Immunology*, 192(8):3889–97.
56. 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.

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57. 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):1197–204.
  58. 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.
  59. 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):526–31.
  60. 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):1567–76.
  61. 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):232–41.
  62. 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):234–42.
  63. Divani AA, **Luo X**, Datta YH, Duprez D, Hall JL, Panoskaltis-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.
  64. 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):1042–7.
  65. 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.
  66. 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):666–75.
  67. 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):1653–62.
  68. 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):1104–11.

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69. 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.
  70. 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.
  71. 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.
  72. 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.
  73. 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):264–71.
  74. 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*, 2017 Jan; 112(1):156–167.
  75. 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*, 2017 Feb; 112(2):349–359.
  76. 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*, 2017 Jul 5; 18(1):305.
  77. 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*, 2018 Feb; 32(2):294–300.
  78. Scheuermann TS, Nollen NL, **Luo X**, Cox LS, Ahluwalia JS. Intent to quit, quit attempts, and perceived health risk reduction among African American, Latino, and White nondaily and daily smokers in the United States. *Health and Ethnicity*, Published online: 16 Oct 2017. doi: 10.1080/13557858.2017.1390549
  79. Dermody SS, McClernon FJ, Benowitz N, **Luo X**, Tidey J, Smith T, Vandry R, Hatsukami D, Donny EC. Effects of reduced nicotine content cigarettes on individual withdrawal symptoms over time and during abstinence. *Experimental and Clinical Psychopharmacology*, 2018 Mar 5. doi: 10.1037/pha0000179. [Epub ahead of print].
  80. Williams SM, Sumstad D, Kadidlo D, Curtsinger J, **Luo X**, Miller JS, McKenna DH. Clinical-scale production of cGMP compliant CD3/CD19 cell-depleted NK cells in the evolution of NK cell immunotherapy at a single institution. *Transfusion*, 2018 March 12. doi: 10.1111/trf.14564. [Epub ahead of print].



81. Bejanyan N, Brunstein CG, Cao Q, Lazaryan A, **Luo X**, Curtsinger J, Mehta RS, Warlick E, Cooley SA, Blazar BR, Miller JS, Weisdorf D, Wagner JE, Verneris MR. Allogeneic transplantation increases the risks of mortality and chronic GVHD. *Blood Advances* (accepted).
82. Sarhan D, Hippen KL, Lemire A, Hying S, **Luo X**, Lenvik T, Curtsinger J, Davis Z, Zhang B, Cooley S, Cichocki F, Blazar BR, Miller JS. Adaptive NK cells resist regulatory T cell suppression driven by IL-37. *Cancer Immunology Research* (revision submitted).
83. Popp J, Nyman JA, **Luo X**, Wang Q, Bengtson J, Lust K, An L, Ahluwalia JS, Thomas JL. Cost-effectiveness of a Quit and Win smoking cessation program for college students. *The European Journal of Health Economics* (minor revision).

### Other Publications:

1. 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.
2. 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.
3. 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.
4. 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.

## PRESENTATIONS

**Presentations at Statistical Conferences** (\*indicates 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. Contributed talk and paper. *The International Biometric Society Eastern North American Region (ENAR) Spring Meeting*, Austin, TX, 2005.
2. **Luo X\***, Wang M-C. Recurrent event models in the presence of a terminal event: comparison, inference and data analysis. Contributed talk and paper. *Joint Statistical Meetings (JSM)*, Minneapolis, MN, 2005.
3. **Luo X\***, Huang C-Y, Sorock GS. Analysis of recurrent event data in case-crossover studies. Contributed talk and paper. *Joint Statistical Meetings (JSM)*, Salt Lake City, UT, 2007.
4. **Luo X\***, Huang C-Y. Recurrence time data analysis using within-cluster resampling. Contributed talk and paper. *Joint Statistical Meetings (JSM)*, Washington DC, 2009.

5. Yue B, 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. Contributed talk and paper. *Joint Statistical Meetings (JSM)*, Miami, FL, 2011.
6. **Luo X\***, Huang C-Y, Wang L. Quantile regression for recurrent gap time data. Contributed poster and paper. *Joint Statistical Meetings (JSM)*, San Diego, CA, 2012.
7. **Luo X\***, Huang C-Y, Wang L. Statistical methods for recurrent gap time data. Invited talk. *Joint Statistics Conference by the International Chinese Statistical Association (ICSA) and the International Society for Biopharmaceutical Statistics (ISBS)*, Bethesda, MD, 2013.
8. Lee CH\*, **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 Distinguished Student Paper Award.)
9. Lee CH, **Luo X\***, Huang C-Y, DeFor T. Statistical methods for data of recurrent infections after hematopoietic cell transplantation. Invited talk. 2014 *ICSA/KISS Applied Statistics Symposium*, Portland, OR, June 15-18, 2014.
10. Lee CH\*, **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.
11. **Luo X\***, Zhang Y, 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.
12. Lee CH\*, **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.
13. Lyu T\*, **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.
14. Lyu T\*, **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.
15. Lyu T\*, **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.
16. **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).
17. Lyu T\*, **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.

18. Lyu T\*, 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.
19. **Luo X\***, Lyu T, Sun Y, Huang C-Y. Time-dependent covariates in recurrent event models. *Joint Statistical Meetings (JSM)*, Vancouver, BC, Canada, July 28 - August 2, 2018.

#### Department Seminars:

20. Recurrent event models in the presence of a terminal event: comparison, inference and data analysis. Invited talk, Division of Biostatistics, School of Public Health, University of Minnesota, 2006.
21. 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.

#### Coauthored Conference Presentations/Posters/Abstracts:

22. 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.
23. 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). *The American Society of Hematology (ASH) Annual Meeting Abstracts 2006, Blood* 108(11): 850A-851A. Abstract 2999.
24. Long JR, Oetting W, Wang X, **Luo X**, Tomblyn M, Weisdorf D, Jacobson PA. Impact of genetic variants on mycophenolate exposure in hematopoietic cell transplantation (HCT). *The American Society of Hematology (ASH) Annual Meeting Abstracts 2007, Blood* 110(11): 884A. Abstract 3010.
25. 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.
26. 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.
27. 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.
28. 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.
29. An LC, Berg CJ, Klatt CM, Perry CL, Thomas JL, **Luo X**, Ehlinger E, Ahluwalia JS. Symptoms of cough and shortness of breath among occasional young adult smokers. *Society for research on Nicotine and Tobacco (SNRT)'s 14th Annual Meeting 2008*. POS5-97.
  30. 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).
  31. 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.
  32. 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.
  33. 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, Sperduto 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.
  34. 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*.
  35. 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. *The American Society of Hematology (ASH) Annual Meeting 2009*. Abstract 665.
  36. 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.
  37. 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 2010 Annual Meeting*. Paper#51909.
  38. 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. *American Society of Clinical Oncology 2010 Annual Meeting*. Abstract ID: e19504
  39. Davydova J, Ono HA, Gavrikova T, Brown E, **Luo X**, Curiel DT, Vickers SM, Yamamoto M. Oncolytic adenovirus with a major late promoter-driven imaging cassette predicts in vivo anti-tumor effect. *Japanese Society of Gene Therapy, the 16th annual meeting, 2010*.

40. 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.*
41. Cooley S, Wagner JE, Brunstein C, **Luo X**, DeFor T, Hagiwara M, Orreggio G, Curtsinger J, Blazar BR, McClave 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. *The 52nd American Society of Hematology (ASH) Annual Meeting, Orlando, FL, December 4-7, 2010.* (poster)
42. Thomas JL, Ahluwalia JS, Ronco JE, **Luo X**, Lust, K, Nyman, J, Rudie M, Schreier M, An, L, Reitzel, L, Wetter, D, Mazas, C, Figueroa, P. Enhancing intrinsic motivation for sustained abstinence among college smokers enrolled in a Quit and Win contest. Poster presented at *the Annual Meeting of the Society for Research on Nicotine and Tobacco*, Toronto, Canada, February, 16-19, 2011.
43. 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.
44. Knisely J, Sperduto W, Shanley R, **Luo X**, Watanabe Y, Watts C, Sperduto P. The graded prognostic assessment (GPA) for patients with breast cancer and brain metastases: Minnesota experience. *The 10th International Stereotactic Radiosurgery Society Congress*, Paris, France, May 8-12, 2011. #OS14-3.
45. 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.
46. 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. The effect of tumor subtype on survival and the graded prognostic assessment (GPA) for patients with breast cancer and brain metastases. *ASCO Breast Cancer Symposium 2011*, San Francisco, CA, September 8-10, 2011. *J Clin Oncol* 29, 2011 (suppl 27; abstr 238)
47. 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.
48. Emiru T, **Luo X**, Paredes-Andrade E, Thomson RM, Divani AA. Effect of untreated hypertension on hospital outcomes in spontaneous intracerebral hemorrhage. *The 64th Annual Meeting of the American Academy of Neurology*, New Orleans, LA. April 21-28, 2012.
49. Han J, Nelson SR, Armstrong L, Dos Santos T, Shanley R, **Luo X**, Aoki K, Vickers SM, Yamamoto M, Davydova J. Improved Antitumor Effect of Adenovirus-Mediated Interferon Therapy in Combination with Chemoradiotherapy in a Syngeneic Immunocompetent Hamster Model. *American Society of Gene and Cell therapy meeting (ASGCT)*, Philadelphia, PA, May 16-19, 2012.

50. 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.
51. 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).
52. 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.
53. 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.
54. 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.
55. Bhatia P, Hartley EW, **Luo X**, Divani AA. Elevated Blood Pressure Increases Amount of Hematoma in a Rat model of Intracerebral Hemorrhage. *The 8th World Stroke Congress*, Brasilia, Brazil, October 10-13, 2012.
56. 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 in an immunocompetent model. *The 2012 Annual Meeting of the American Pancreatic Association (APA) and the International Association of Pancreatology (IAP)*, Miami, FL, October 31 - November 3, 2012. (abstract accepted to *Pancreas Journal*).
57. 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).
58. Skubitz KM, Skubitz AP, Xu WW, **Luo X**, Lagarde P, Coindre J-M, Chibon F. Gene expression identifies heterogeneity of metastatic behavior among highgrade pleomorphic soft tissue sarcomas. *17th CTOS Annual Meeting*, Prague, Czech Republic, November 14-17, 2012 (ID: 1424007).
59. 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. Poster presented at *the Annual Meeting of the Society for Research on Nicotine and Tobacco*, Boston, Massachusetts, March 13-16, 2013.
60. Ghidai 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. Poster presented at *the Annual Meeting of the Society for Research on Nicotine and Tobacco*, Boston, Massachusetts, March 13-16, 2013.

61. 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. Poster presented at *the Annual Meeting of the Society for Research on Nicotine and Tobacco*, Boston, Massachusetts, March 13-16, 2013 (poster).
62. 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).
63. 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*).
64. 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).
65. 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).
66. 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. *the Annual Meeting of the Society for Research on Nicotine and Tobacco (SRNT)*, Seattle, WA, February 5-8, 2014 (oral presentation).
67. 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. *the Annual Meeting of the Society for Research on Nicotine and Tobacco (SRNT)*, Seattle, WA, February 5-8, 2014 (poster).
68. Pulvers K, Scheuermann TS, Basora B, Emami A, **Luo X**, Ahluwalia JS. Reasons for smoking among tri-ethnic daily and nondaily smokers. *the Annual Meeting of the Society for Research on Nicotine and Tobacco (SRNT)*, Seattle, WA, February 5-8, 2014 (poster).
69. Scheuermann TS, Nollen NL, **Luo X**, Ahluwalia JS. Characteristics of nondaily and daily smokers. *the Annual Meeting of the Society for Research on Nicotine and Tobacco (SRNT)*, Seattle, WA, February 5-8, 2014 (poster).
70. Pulvers K, Scheuermann TS, Romero DR, Basora B, **Luo X**, Ahluwalia JS. Nondaily and daily smokers' identity and classification of a smoker. *the Annual Meeting of the Society for Research on Nicotine and Tobacco (SRNT)*, Seattle, WA, February 5-8, 2014 (poster).

71. 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 nondaily smokers. *the Annual Meeting of the Society for Research on Nicotine and Tobacco (SRNT)*, Philadelphia, PA, February 25-28, 2015.
72. 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? *the Annual Meeting of the Society for Research on Nicotine and Tobacco (SRNT)*, Philadelphia, PA, February 25-28, 2015.
73. Shanap MA, 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. *The 57th American Society of Hematology (ASH) Annual Meeting*, Orlando, FL, December 5-8, 2015.
74. 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. *The 58th American Society of Hematology (ASH) Annual Meeting*, San Diego, CA, December 3-6, 2016.
75. 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). *The 58th American Society of Hematology (ASH) Annual Meeting*, San Diego, CA, December 3-6, 2016.
76. 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. *The 58th American Society of Hematology (ASH) Annual Meeting*, San Diego, CA, December 3-6, 2016.
77. 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.
78. 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.
79. Smith TT, Donny EC, Koopmeiners JS, Benowitz NL, Cinciripini P, Dermody SS, Drobos 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).
80. 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. *SNRT*, Baltimore, MD, February 21-24, 2018 (poster).



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81. Jensen J, Rubin N, **Luo X**, Donny E, Hatsukami D. Impact of very low nicotine content (VLNC) cigarettes on weight. *SNRT*, Baltimore, MD, February 21-24, 2018 (poster).
  82. 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. *SNRT*, Baltimore, MD, February 21-24, 2018 (poster).
  83. 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. *SNRT*, Baltimore, MD, February 21-24, 2018 (talk).
  84. 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. 66th ASMS Conference on Mass Spectrometry and Allied Topics, San Diego, CA, June 3-7, 2018 (poster).

## 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.
  - Advanced Longitudinal Data Analysis
  - Survival Data Analysis
  - Advanced Regression (2nd half: Categorical Data Analysis)

### PhD Thesis Advising:

1. Chihyun Lee, PhD of Biostatistics, 8/20/2015, “Nonparametric and Semiparametric Methods for Recurrent Gap Time Data”.
  - ENAR Spring 2014 Distinguished Student Paper Award.
  - University of Minnesota School of Public Health 2014 Research Day PhD Awards, 3rd Place.
2. Tianmeng Lyu, PhD of Biostatistics, 2018 Spring (expected), “Regression models for recurrent event data and smoothing techniques”.
3. Anne Eaton, PhD of Biostatistics, TBD.

### 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”.
6. Tingting Zhao, MS of Biostatistics, 7/10/2013, “Two-Part Mixture Model for Cigarette Purchase Task Data”.
7. Yiwen Zhang, MS of Biostatistics, 8/28/2014, “Analysis of Missing Data for a Smoking Cessation Study”.
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, Spring 2018 expected, “Statistical methods for analyzing the area under the curve of longitudinally measured biomarkers with missing data”.
11. Hao Yuan, MS of Statistics, 2018 expected, “Analysis of quit attempts data of smokers using recurrent event methods”

**Exam Committee:**

<u>Name</u>	<u>Degree Program</u>	<u>Exam</u>	<u>Date</u>
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 & Management	Preliminary oral	05/29/2007
		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, Biostatistics	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

**Mentoring of Clinical or Translational Researchers:**

- Antonella Borgatti, Assistant Professor of Veterinary Clinical Sciences, NIH/K01 "Preclinical evaluation and clinical translation of novel bispecific toxins that target sarcoma tumors and their vasculature", 6/1/2014 - 5/31/2019.
- Lucie Turcotte, Assistant Professor of Pediatric Hematology and Oncology, 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.

**Mentoring of Research Assistants (RA) on Sponsored Projects:**

- 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.
- Chihyun Lee, PhD student in Biostatistics, "Quantile Regression Models for Recurrent Gap Time Data" (PI: X. Luo), 8/27/2012-1/9/2014.
- 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.
- Tien Vo, MS student in Biostatistics, "Online Tri-Ethnic Smoking Study" (PI: J. S. Ahluwalia), 8/11/2014-8/29/2014.
- 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.
- Sandra Castro Pearson, PhD student in Biostatistics, "Statistical Methods for Bivariate Alternating Recurrent Event Data" (PI: X. Luo), 1/11/2018-5/27/2018.

## GRANT SUPPORT

### Ongoing

NIH/NIMH 1R03MH112895 (Luo) 9/27/17-8/31/19

*Statistical Methods for Bivariate Alternating Recurrent Event Data*

The overall goal of this project is to develop novel statistical methods for analyzing rehospitalizations data of patients with recurrent disease conditions

Role: **Principal Investigator**

NIH/NCI 2P30CA077598 (Yee) 2/1/14-1/31/19

*Cancer Center Support Grant*

To provide an infrastructure for cancer research, education and patient care for the citizens of the Minnesota and the surrounding region. Our mission is to create a collaborative environment that advances knowledge about the causes, prevention, detection and treatment of cancer.

Role: Member of Biostatistics and Bioinformatics Shared Resources

FDA/NIDA 2U54DA031659 (Donny, Hatsukami) 3/1/17-2/28/22

*Evaluating New Nicotine Standards for Cigarettes*

The primary objective of the Biostatistics and Data Management Core is to contribute to the science and operation of the applied clinical research center by participating fully in its activities. Core Statisticians have broad long-standing expertise in Experimental design, data collection, data storage, data analysis, and interpretation of results incorporating novel and complex statistical procedures as needed. By providing expertise research methodology and logistical support to data analytic activities with each Project, this Core will enhance data interpretation and scientific productivity.

Role: Co-Investigator

NIH/NCI R01CA166615 (Kassie) 3/1/13-2/28/18

*Chemoprevention of inflammation-driven lung cancer*

The results of this study could establish the basis for future clinical trials of I3C plus SB for lung cancer chemoprevention and provide a better understanding of the molecular events underlying inflammation-driven lung tumor genesis.

Role: Co-investigator

NIH/NHLBI R01HL081522 (Pratt) 2/15/14-3/31/19

*Enhancing Smoking Cessation in Homeless Populations*

The goal is to enhance smoking cessation rates for homeless smokers by testing the effects of 1) intensive smoking intervention, and 2) integrating alcohol abuse treatment with smoking cessation.

Role: Co-Investigator

NIH/OD 5K01OD017242 (Borgatti) 6/1/14-5/31/19

*Preclinical Evaluation and Clinical Translation of Novel Bispecific Toxins That Target Sarcoma Tumors and Their Vasculature*

We will perform a study to assess safety and efficacy of EGFuPA in canine sarcomas using a continuous reassessment model. In addition to standard monitoring tools of treatment efficacy (i.e. radiography, ultrasonography), we will also develop potential biomarkers that can inform treatment outcome.

Role: Statistician Mentor

NIH/NCI 5R35CA197292 (Miller) 8/5/15–7/31/22

*Viral Priming and Targeting NK Cells Against Solid Tumor Malignancies*

The overarching goal of this Outstanding Investigator Award is to develop strategies to enhance the anti-tumor activity of endogenous NK cells in patients with solid tumor malignancies. The objective is to develop "off the shelf" reagents to activate NK cells, overcome inhibitory receptor signaling, and target them to specific tumor antigens.

Role: Co-Investigator

NIH/NCI P01CA065493 (Wagner) 9/25/15–8/31/20

*Biology & Transplantation of the Human Stem Cell*

The main goal of this project is to understand how to exploit NK cell therapy along with umbilical cord blood transplantation.

Role: Co-Investigator

NIH/NCI 1P01CA111412 (Miller) 4/1/17–3/31/21

*NK Cells, Their Receptors and Unrelated Donor Transplant*

This Program will establish definitive roles for NK cells and their receptors in allogeneic transplantation with broader impact to all cancer therapy.

Role: Co-Investigator

DOD/PRCRP (Felices) 10/1/16–9/30/19

*Enhancing Natural Killer Cell Mediated Targeting and Responses to Myeloid Leukemias*

Role: Co-Investigator

NIH/NCI 1P01CA217806 (Hatsukami, Shields) 9/1/17–8/31/22

*Consortium on Methods Evaluating Tobacco: Filter Ventilation and Product Standards*

The Biostatistics and Data Management Core provides a broad array of statistical services in support of the four projects. The Core will provide advice on clinical trial design - such as selection of end points and possible stratification, consideration and calculation of sample size and statistical power. The Core is responsible for all aspects of data management in all three projects in this Program Project.

Role: Co-Investigator

### **Completed in the last 3 years**

NIH/NCI R03CA187991 (Luo) 7/1/14–6/30/16

*Statistical Methods for Analyzing Data of Recurrent Infections after Hematopoietic Cell Transplantation*

The overall goal of this project is to develop statistically proper and efficient methods for analyzing recurrent infections after hematopoietic cell transplantation.

Role: **Principal Investigator**

NIH/NCMHD P60MD003422 (Ahluwalia) 7/27/09–5/31/16

*University of Minnesota Center for Health Disparities Research, Engagement and Training Project 1: Community Outreach and Biomarker Feedback for Smoke-Free African American Homes (PI: Thomas)*

The primary aim of this program project is to test the impact of community health worker delivered biomarker feedback on child exposure to tobacco toxins associated with ETS exposure on the initiation of home smoking restrictions and cessation among African American families.

Role: Role: Co-Investigator of Project 1