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### EDUCATION

- May 2006 **Ph.D.** Biostatistics, Johns Hopkins Bloomberg School of Public Health,  
Baltimore, Maryland
- July 2000 **M.S.** Quaternary Geology, Department of Urban and Environmental  
Sciences, Peking University, China
- July 1997 **B.S.** Economic Geography, Department of Urban and Environmental  
Sciences, Peking University, China
- July 1997 **Minor** Computer Software, Department of Computer Science and  
Technology, Peking University, China

### PROFESSIONAL EXPERIENCE

- 2006-present **Assistant Professor**  
Division of Biostatistics, School of Public Health, University of Minnesota  
**Member** of Masonic Cancer Center, University of Minnesota
- 2001-2006 **Research Assistant and Teaching Assistant**  
Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland

### RESEARCH INTERESTS

Research interests include methods and applications for recurrent event data, survival data, longitudinal data, and data from case-crossover studies; design and analysis of clinical trials. Collaborations include cancer research, bone marrow transplant (BMT), tobacco use and smoking cessation, pharmacogenetics, gerontology, pediatric psychiatry, and health disparity research.

### PEER-REVIEWED PUBLICATIONS

1. **Luo X**, Ni J. (2000). Advances in land use and land cover change. *Journal of Basic Science and Engineering* (in Chinese), 8: 262-272.
2. **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.
3. 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.
4. 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.
5. 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):108-13.

6. Hecht SS, Carmella SG, Murphy SE, Riley W, Le C, **Luo X**, Mooney ME, Hatsukami DK. (2007). Similar uptake of a tobacco-specific carcinogen in smokeless tobacco users and smokers. *Cancer Epidemiology Biomarkers & Prevention*, 16(8):1567-72.
7. Wissow LS, Gadowski 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):266-75.
8. 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):173-81.
9. 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. *Biol Blood Marrow Transplant*, 14(6):685-92.
10. 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.
11. **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.
12. 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.
13. 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 carcinogen in adolescent versus adult smokers. *Cancer Epidemiology Biomarkers & Prevention*, 17(12):3337-3343.
14. 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):126-33.
15. 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):107-13.
16. 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):237-44.
17. **Luo X**, Wang M-C, Huang C-Y. A comparison of various rate functions of a recurrent event process in the presence of a terminal event. *Statistical Methods in Medical Research*, 2008 May 22. [Epub ahead of print]. DOI: 10.1177/0962280208090220.
18. Burke MJ, Trotz B, **Luo X**, Weisdorf DJ, Baker KS, Wagner JE, Verneris MR. 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*, 2009 Feb 9. [Epub ahead of print].
19. Sorock GS, Quigley PA, Rutledge MK, Taylor J, **Luo X**, Foulis P, Wang M-C, Varadhan R, Bellantoni M, Baker SP. Central nervous system medication changes and falls in nursing home residents. *Geriatric Nursing* (accepted).

20. 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. Diagnosis-specific prognostic factors, indices and treatment outcomes for patients with newly diagnosed brain metastases: a multi-institutional analysis of 4259 patients. *International Journal of Radiation Oncology Biology Physics* (accepted).
21. Thomas JL, An LC, **Luo X**, Scherber RM, Berg CJ, Golden D, Ehlinger EP, Murphy SE, Hecht SS, Ahluwalia JS. Abstinence and relapse rates following a college campus-based “Quit & Win” contest. *The Journal of American College Health* (accepted).

## OTHER PEER-REVIEWED PUBLICATIONS

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

## INVITED AND CONTRIBUTED TALKS AND CONFERENCE ABSTRACTS

### Talks

1. 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) 2005 Spring Meeting*, Austin, TX, 2005.
2. 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. 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.
4. Analysis of recurrent event data in case-crossover studies. Contributed talk and paper. *Joint Statistical Meetings (JSM)*, Salt Lake City, UT, 2007.
5. 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.
6. Recurrence time data analysis using within-cluster resampling. Contributed talk and paper. *Joint Statistical Meetings (JSM)*, Washington DC, 2009.

### Coauthored Abstracts/Posters

1. 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.
2. 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.

3. 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.
4. 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.
5. 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.
6. 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*.
7. 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*.
8. Berg CJ, Thomas JL, An LC, **Luo X**, Ahluwalia JS, Hecht SS, Murphy SE, Rangel M, Lust K, Golden D, Ehlinger E. Abstinence and relapse related to a campus-based Quit & Win contest. *Society for research on Nicotine and Tobacco (SNRT) 2008 Meeting*. (Poster).
9. 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).
10. Sperduto P, Sneed P, **Luo X**, Bhatt A, Schwer A, Fiveash J, Knisely J, Chang V, Sperduto M, Gaspar L, Mehta M. A multi-institutional validation study of a new prognostic index (graded prognostic assessment, GPA) for patients with brain metastases. *American Society for Therapeutic Radiology And Oncology 50th Annual Meeting, 2008*.
11. Lee HY, **Luo X**, et al. Colorectal cancer screening disparities in Asian Americans: exploring subgroup differences and associated determinants. *Society of Social Work Research (SSWR) Cancer Symposium 2009*.
12. 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*.
13. 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 51th Annual Meeting, 2009*.

14. 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*.

## EDUCATIONAL ACTIVITIES

### Teaching

- Teaching Assistant/Lab Instructor, Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, 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).

- Instructor, Advanced Longitudinal Data Analysis, Division of Biostatistics, School of Public Health, University of Minnesota, 2008.

### Thesis Advising

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

### 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 and 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

## OTHER ACADEMIC ACTIVITIES

### Institutional/Divisional Committee Memberships

- Cancer Protocol Review Committee, Non-Therapeutic (CPRC-NT), University of Minnesota Masonic Cancer Center, 2009 - present.

### Journal Reviewer/Referee

- Biometrical Journal
- Biometrics
- Communications in Statistics - Theory and Methods
- Computational Statistics and Data Analysis
- Journal of Clinical Epidemiology
- Lifetime Data Analysis

- Statistics in Medicine
- World Health and Population

**Professional Memberships**

- American Statistical Association, since 2003
- The International Biometric Society, Eastern North American Region (ENAR), since 2007
- Society for Clinical Trials, since 2007